Clarion

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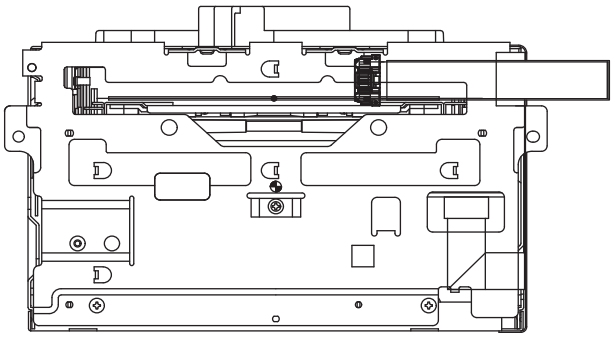
Service Manual



NISSAN MOTOR Genuine 6-disc CD/MP3/WMA Autochanger AM/FM Radio Stereo

Model **PN-2708N-A/B**

(Genuine No. 28185 CL70A)

SPECIFICATIONS

Tuner section

Tuning system:	PLL synthesizer	
Receive frequency:	AM	530kHz to 1710kHz
	FM	87.75MHz to 107.9MHz
Intermediate frequency:	AM	450+3/-3kHz
	FM	10.7+0.3/-0.3MHz
Quieting sensitivity:	AM	Less than 38dBu
	FM	Less than 15dBu
Separation:	FM	22+5/-7dB(1kHz)
S/N ratio:	AM	More than 45dB
	FM	More than 50dB
Auto stop sensitivity(DX):	AM	42+6/-6dBu(600kHz) 39+6/-6dBu (1000kHz, 1400kHz)
	FM	32+6/-6dBu

CD changer section

Separation:	More than 60dB(20kHz LPF)
S/N ratio:	More than 74dB
Distortion:	Less than 0.1%(20kHz LPF)
MP3/WMA operations:	MP3; Sampling rate 11.025kHz-48kHz Bit rate: 8kbps-320kbps/VBR WMA; Bit rate; 48kbps-192kbps/VBR Logical format(File system); ISO9660 level 1, 2 or JOLIET or Romeo

AUX(CD) section

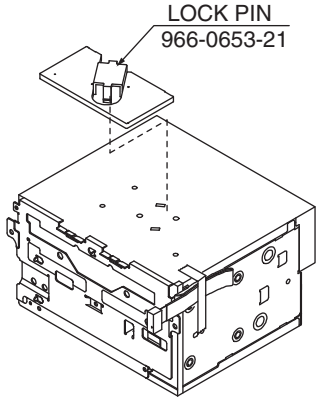
Separation:	More than 52dB(1kHz, 3.0V input)
S/N ratio:	More than 80dB(1kHz, 3.0V input)
CMRR:	More than 40dB(1kHz, 3.0V input)

General section

Load impedance:	300 ohm/4ch
Power output:	6V x 4
Power supply voltage:	DC 14.4V
Back up current:	Less than 0.5mA(at 13.2V)
Dimensions(mm):	180(W) x 106.4(H) x 167(D)
Weight:	2.75kg

NOTE

* There are two models with a different production place.
  China production: PN-2708N-A
  Philippines production: PN-2708N-B
  All the same parts are used and assemble these models.
* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
* Specification and design are subject to change without notice for further improvement.
* In case that the main unit is transported for repair, the lock pin (966-0653-21) must be set to fix the mechanism assy.



COMPONENTS

PN-2708N-A/B

Main unit ---------- 1

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off.
   If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.
   If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly(more than three times) to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement.
   Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit.
   When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

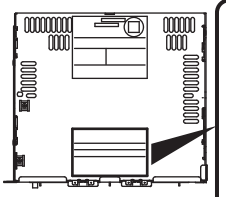
9-2. Actuator
   The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change.
   Ensure that not foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens
   Dust on the optical lens affects performance.
   To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

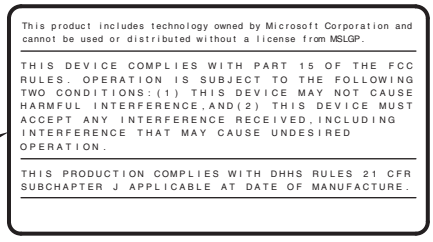
CAUTION

Use of controls, adjustments, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.



Top view of the unit


This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE,AND(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
THIS PRODUCTION COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

Guide label

EXPLANATION OF IC

052-3177-40 M30624MGA-EM6GP System Controller

1.Terminal Description

pin 1 : 1CD/6CD : IN : The initial setting terminal. High = 1CD, Low= 6CD.
pin 2 : TAPE SEL : IN : The initial setting terminal. High = without tape.
pin 3 : SCV SEL : IN : The initial setting terminal. Low = without SCV.
pin 4 : NU : - : Not in use.
pin 5 : ES RETURN : IN : The flexible PWB connection OK flag input.
pin 6 : BYTE : IN : The data length selection(8bit/16bit).
pin 7 : CN VSS : IN : Connect to VSS.
pin 8 : TEST : - : For the Test.
pin 9 : ILL ON : IN : Illumination ON signal input.
pin 10 : RESET : IN : Reset signal input.
pin 11 : X OUT : O : Crystal connection.
pin 12 : GND : - : Ground.
pin 13 : X IN : IN : Crystal connection.
pin 14 : VDD : - : Positive supply voltage.
pin 15 : NU : - : Not in use.
pin 16 : BU DET : IN : Backup detection signal input.
pin 17 : ACC IN : IN : ACC ON flag input.
pin 18 : TEL : IN : The telephone interrupt pulse input.
pin 19 : SBSY : IN : Sub code block synchronous signal detection input.
pin 20 : AMP ON : O : Audio power amplifier ON signal output.
pin 21 : SYS ON : O : System ON signal output.
pin 22 : NU : - : Not in use.
pin 23 : REAR MUTE : O : The audio mute signal output for the rear channels.
pin 24 : NU : - : Not in use.
pin 25 : FRONT MUTE : O : The audio mute signal output for the front channels.
pin 26 : 6-CD REQ : IN : The request signal input from the 6CD-Changer.
pin 27 : 6-CD RX : IN : The serial data input for 6CD-Changer.
pin 28 : 6-CD TX : O : The serial data output for 6CD-Changer.
: 1-CD ON : O : Power supply ON signal output for 1-CD.
pin 29 : NDS FLASH TX : O : NDS serial data output for external A/C.
pin 30 : NDS FLASH RX : O : NDS serial data input for external A/C.
pin 31 : FLASH CLK : O : Clock pulse output for flash memory.
pin 32 : NU : - : Not in use.
pin 33 : DCU TX : O : The serial data output to DCU.
pin 34 : DCU RX : IN : The serial data input from DCU.
pin 35 : NDS CNT : O : Low = A/C 1, High = A/C 2.
pin 36 : NDS REQ 2 : IN : NDS request signal input.
pin 37 : NDS REQ 1 : IN : NDS request signal input.
pin 38 : SOURCE CHG : O : The signal source change signal output.
pin 39 : FLASH EPM : O : FLASH EPM.
pin 40 : VOL EEP-R DO : O : Serial data output for Volume IC or EEP-ROM.
pin 41 : VOL EEP-R CK : O : Clock pulse output for Volume IC or EEP-ROM.
pin 42 : VOL CE : O : The chip enable signal output to the volume IC.
pin 43 : EEPROM CE : O : The chip enable signal output to EEP-ROM.
pin 44 : FLASH CE : IN : Chip enable signal input for flash memory.
pin 45 : EEPROM DI : IN : Serial data input from the EEP-ROM.
pin 46 : NU : - : Not in use.
pin 47 : AUX ON : IN : AUX(DVD) ON signal input.
pin 48 : COMBI ON : O : Combi(DVD) ON signal output.
pin 49 : BUC 0 : I/O : CD IC Data input / output.
pin 50 : BUC 1 : I/O : CD IC Data input / output.
pin 51 : BUC 2 : I/O : CD IC Data input / output.
pin 52 : BUC 3 : I/O : CD IC Data input / output.
pin 53 : BUC CLOCK : O : CD IC clock pulse output.
pin 54 : CCE : O : The chip enable signal output.
pin 55 : CD RESET : O : The reset pulse output to the CD IC.
pin 56 : S STOP : IN : Inside limit signal input from the CD mechanism.
pin 57 : CHU SW : IN : CD disc chucking signal input.
pin 58 : TR A : IN : Photo sensor signal input from the CD mechanism.
pin 59 : TR B : IN : Photo sensor signal input from the CD mechanism.
pin 60 : VDD : - : Positive supply voltage.
pin 61 : LD CONT : I/O : Loading motor control signal output.
pin 62 : GND : - : Ground.
pin 63 : PLL CE : O : The chip enable signal output to the PLL IC.
pin 64 : PLL CLK : O : The clock pulse output to the PLL IC.
pin 65 : PLL DO : O : Serial data output to the PLL IC.
pin 66 : PLL DI : IN : Serial data input from the PLL IC.
pin 67 : ST/TWEET : I/O : Outputs "L" at AM 900kHz receiving. Inputs "L" at FM stereo receiving.
pin 68 : AMP MUTE : O : Muting signal output to the Audio Power Amplifier.
pin 69 : MECH MUTE : O : Muting signal output to the Tape mechanism.
pin 70 : RDS DI : IN : RDS data input.
pin 71 : RDS CLK : IN : RDS clock pulse input.
pin 72 : NU : - : Not in use.
pin 73 : TAPE IN : IN : The tape in signal input.
pin 74 : MODE BIT 1 : IN : The mode bit input from the tape mechanism.
pin 75 : MODE BIT 2 : IN : The mode bit input from the tape mechanism.
pin 76 : MODE BIT 3 : IN : The mode bit input from the tape mechanism.
pin 77 : REEL PULSE : IN : Reel pulse input from the tape mechanism.
pin 78 : APC SENSE : O : APC gain control signal output.
pin 79 : APC DET I : IN : APC detected signal input.
pin 80 : PWR MTR 1 : O : Power motor control signal output.
pin 81 : PWR MTR 2 : O : Power motor control signal output.
pin 82 : MAIN MTR : O : Main motor control signal output.
pin 83 : NR : O : Noise reduction control.
pin 84 : FWD/REV : O : Forward/Reverse selection.
pin 85 : LD MUTE : O : Muting signal output to the CD mechanism.
pin 86 : CD CONNECT : IN : CD connection check signal input.
pin 87 : 6-CD LOAD : IN : The loading control signal input for 6CD-Changer.
pin 88 : TAPE EJECT : IN : Tape eject signal input.
pin 89 : 6-CD EJECT : IN : The eject signal input for 6CD-Changer.
pin 90 : NAVI MUTE : O : Muting signal output to suppress the noise without Navigation sound interrupting.
pin 91 : TF SELECT : IN : High = TF.
pin 92 : IX6 SELECT : IN : Low = IX6-MP3, High = IX6.
pin 93 : FAN ON : O : High = FAN ON.
pin 94 : A VSS - : Analog ground.
pin 95 : CD-MP3 ON : - : Power supply control. High = ON.
pin 96 : Vref : - : Reference voltage.
pin 97 : A VDD : - : Positive supply voltage for the internal analog section. Low = with RDS
pin 98 : RDS SEL : IN : The initial setting terminal. High = without RDS.
pin 99 : USA/EXP : O : High = USA, Low = EXP
pin100 : BOSE AMP SEL : IN : The initial setting terminal. High = BOSE amplifier.

052-5062-04 MBM29DL800BA-90PFTN 8 M bit Flash Memory

1.Terminal Description

pin 1 : Address 15 : IN : Address signal input.
pin 2 : Address 14 : IN : Address signal input.
pin 3 : Address 13 : IN : Address signal input.
pin 4 : Address 12 : IN : Address signal input.
pin 5 : Address 11 : IN : Address signal input.
pin 6 : Address 10 : IN : Address signal input.
pin 7 : Address 9 : IN : Address signal input.
pin 8 : Address 8 : IN : Address signal input.
pin 9 : NU : - : Not in use.
pin 10 : NU : - : Not in use.
pin 11 : WE : IN : Write enable signal input.
pin 12 : RESET : IN : Reset signal input.
pin 13 : NU : - : Not in use.
pin 14 : NU : - : Not in use.
pin 15 : Ready/Busy : O : Ready/Busy flag output, High = Ready.
pin 16 : Address 18 : IN : Address signal input.
pin 17 : Address 17 : IN : Address signal input.
pin 18 : Address 7 : IN : Address signal input.
pin 19 : Address 6 : IN : Address signal input.
pin 20 : Address 5 : IN : Address signal input.
pin 21 : Address 4 : IN : Address signal input.
pin 22 : Address 3 : IN : Address signal input.
pin 23 : Address 2 : IN : Address signal input.
pin 24 : Address 1 : IN : Address signal input.
pin 25 : Address 0 : IN : Address signal input.
pin 26 : CE : IN : Chip enable signal input.
pin 27 : VSS : - : Negative supply voltage.
pin 28 : OE : IN : Output enable signal input.
pin 29 : DQ 0 : I/O : The data input / output.
pin 30 : DQ 8 : I/O : The data input / output.
pin 31 : DQ 1 : I/O : The data input / output.

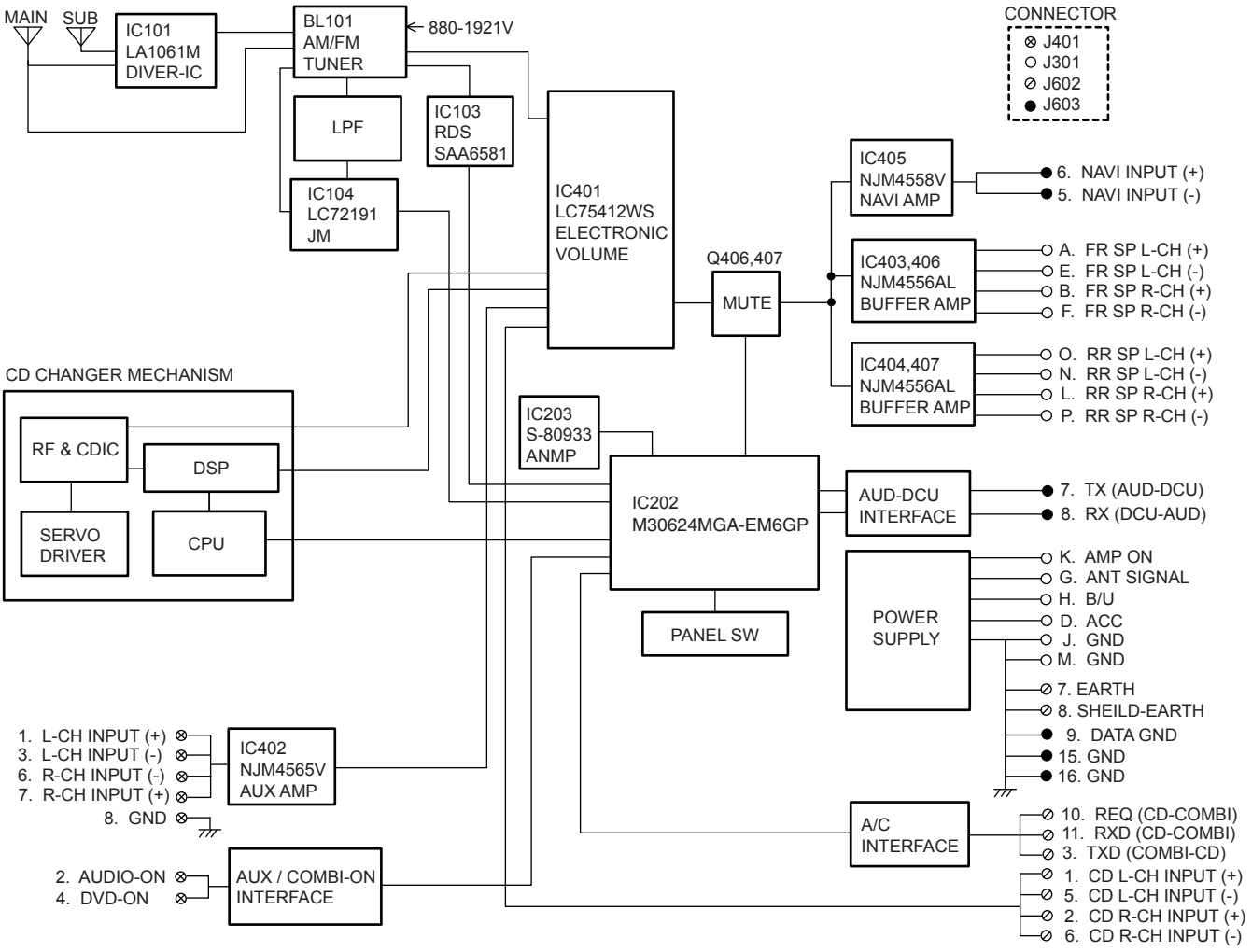
pin 32 : DQ 9 : I/O : The data input / output.
pin 33 : DQ 2 : I/O : The data input / output.
pin 34 : DQ 10 : I/O : The data input / output.
pin 35 : DQ 3 : I/O : The data input / output.
pin 36 : DQ 11 I/O : The data input / output.
pin 37 : VCC : - : Positive supply voltage.
pin 38 : DQ 4 : I/O : The data input / output.
pin 39 : DQ 12 : I/O : The data input / output.
pin 40 : DQ 5 : I/O : The data input / output.
pin 41 : DQ 13 : I/O : The data input / output.
pin 42 : DQ 6 : I/O : The data input / output.
pin 43 : DQ14 : I/O : The data input / output.
pin 44 : DQ 7 : I/O : The data input / output.
pin 45 : DQ 15/A-1 : I/O : The data input/output,TheAddress signal input.
pin 46 : VSS : - : Negative supply voltage.
pin 47 : BYTE : IN : The data length selection(8bit/16bit).
pin 48 : Address 16 : IN : Address signal input.

ADJUSTMENT

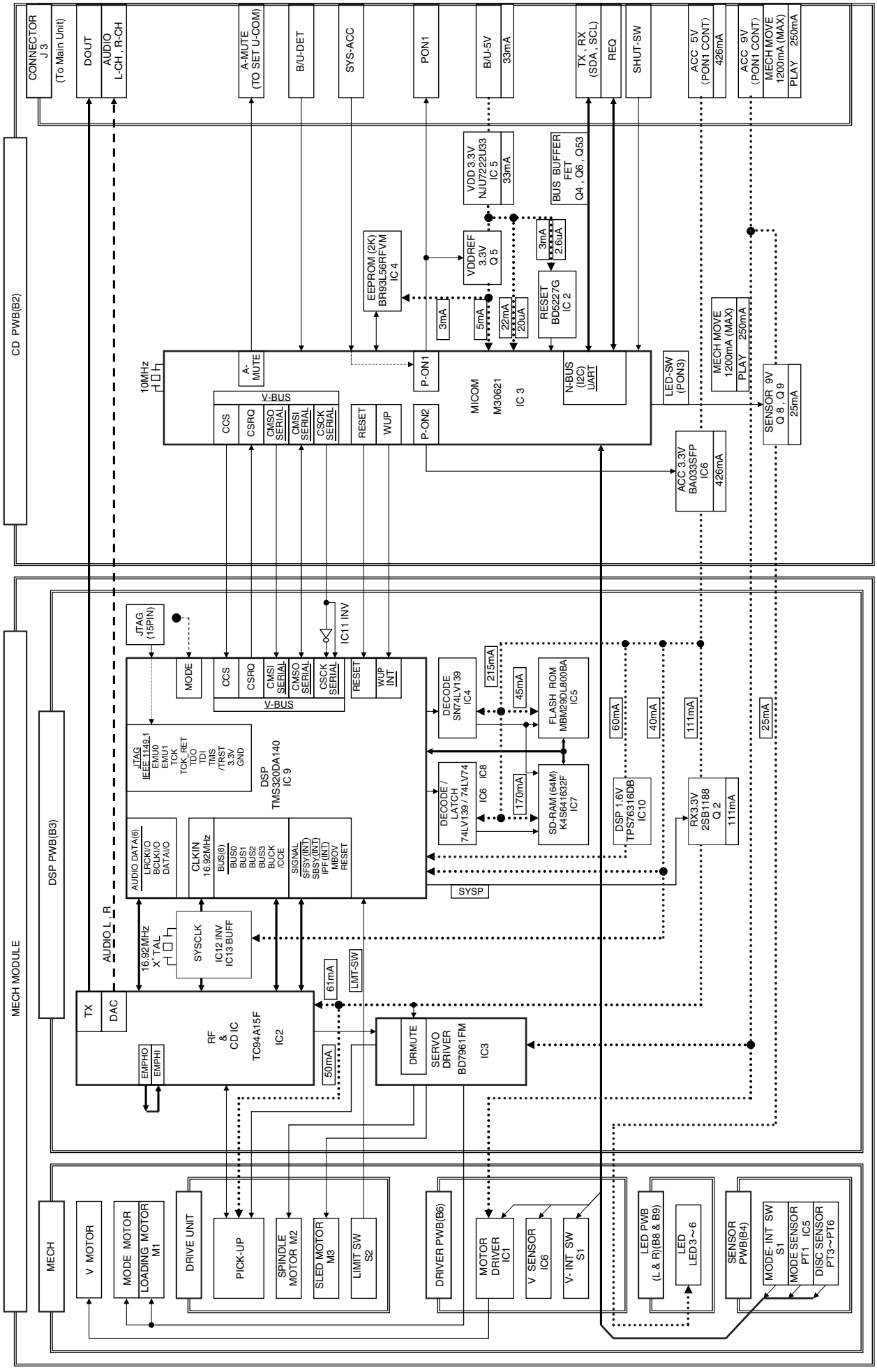
Item	Procedure	Measuring instrument
FM noise convergence	1. Input the 98.1MHz/55dBu(1kHz,30% MOD) signal. (Volume max.=0dB) 2. Adjust the outputs to -22+3/-3dB by VR102 when the SG output is set -20dBu.	SSG Milli-volt meter
FM Diversity	1. Use only Main side of the diver antenna receptacle. 2. SSG input the 98.1MHz(1kHz, 30% MOD) signal of Main side. 3. Turn VR101 until minimum level. 4. Connect a digital tester to TP101(DIV-TP). 5. Adjust VR101 to the point where the voltage starts just to increase(100mV approx).	SSG Digital tester

BLOCK DIAGRAM

Main section



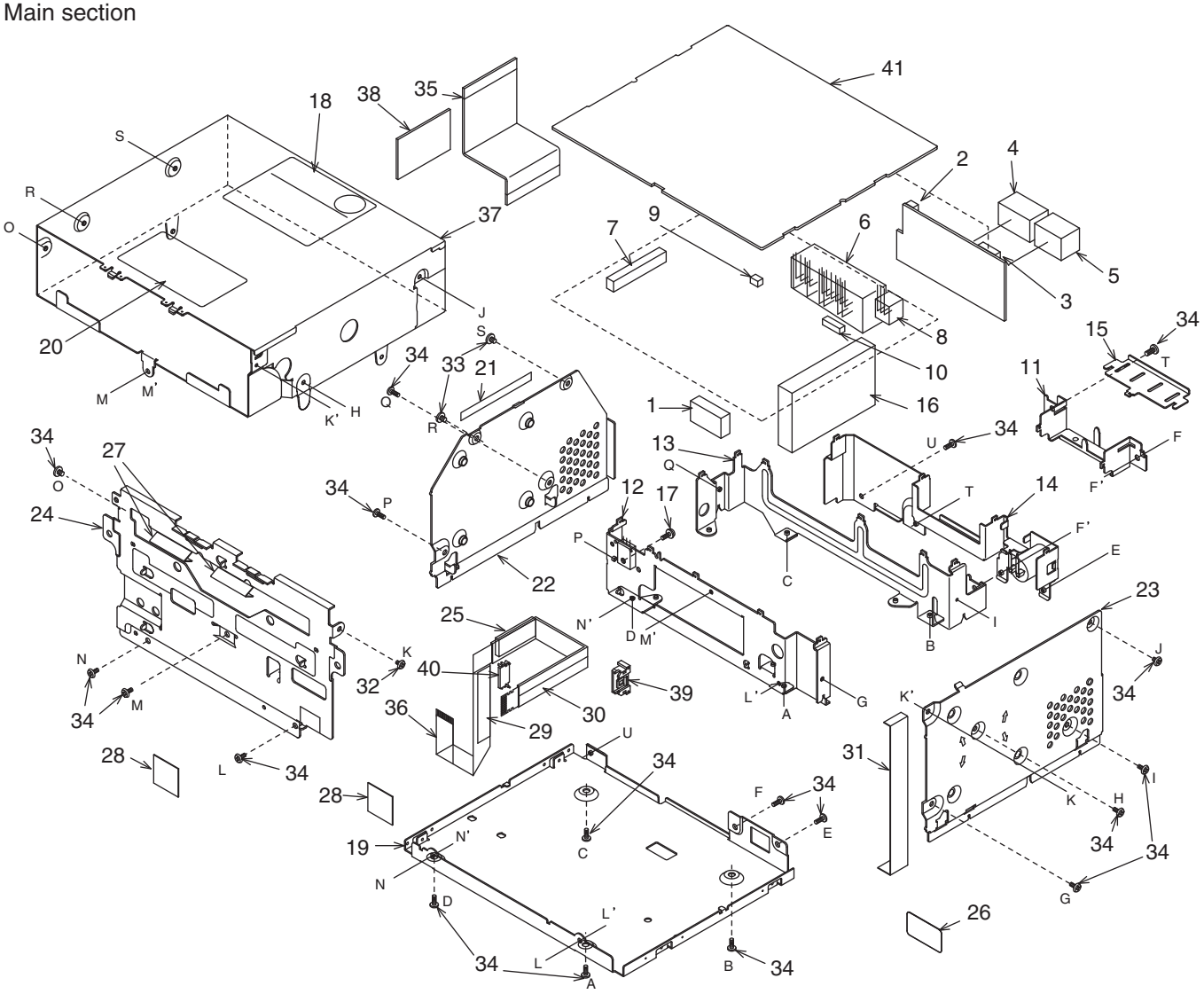
CD changer module section



PN-2708N-A/B

EXPLODED VIEW / PARTS LIST

Main section

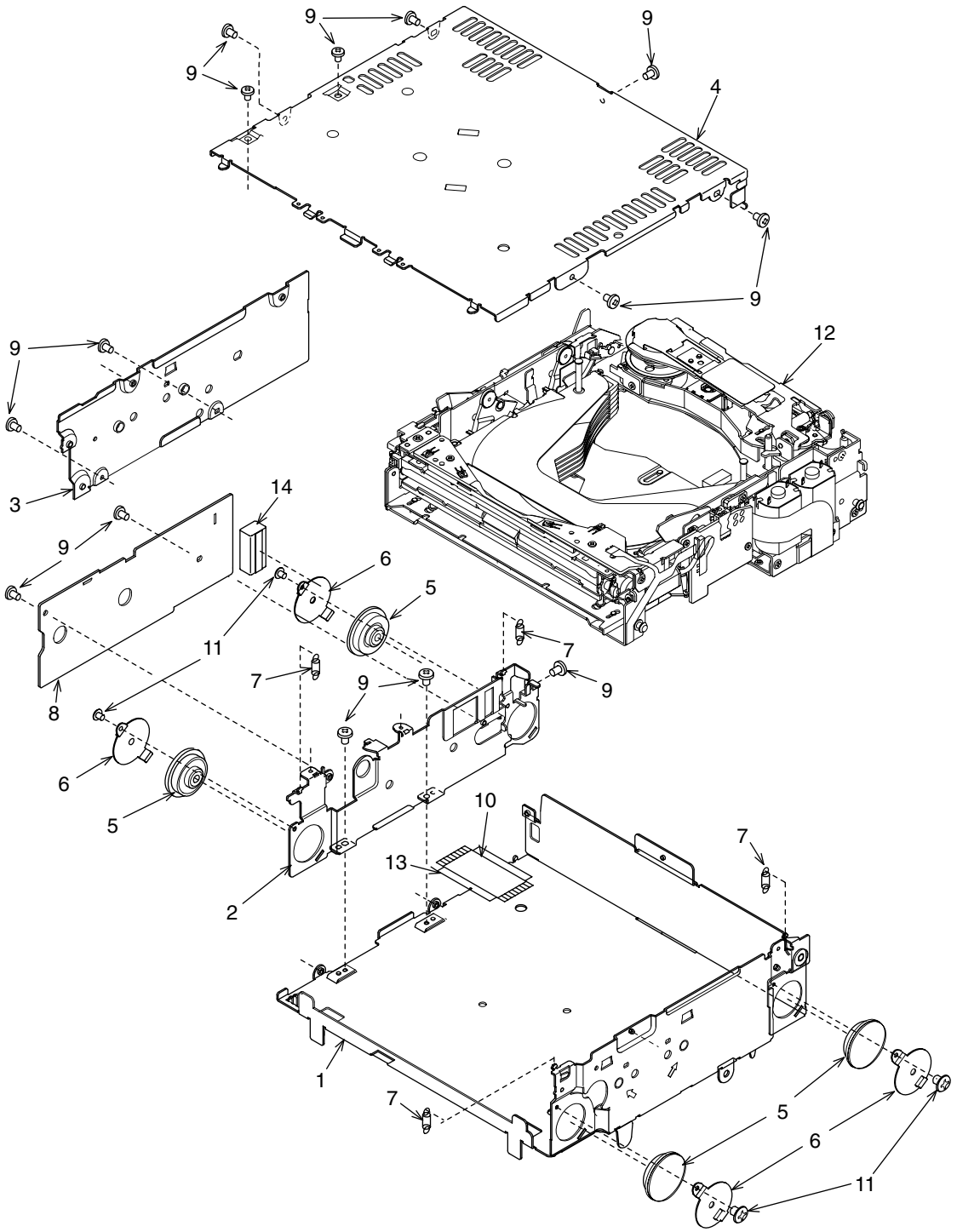


Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.
Some parts depend on each model. The model name is specified in the description.

NO.	PART NO.	DESCRIPTION	Q'TY
1	074-0834-10	OUTLET SOCKET(10P)	1
2	074-0898-06	OUTLET SOCKET(6P)	1
3	074-0898-18	OUTLET SOCKET(18P)	1
4	074-1013-30	OUTLET SOCKET(A-12MW)	1
5	074-1087-12	OUTLET SOCKET(A-16MW)	1
6	074-1141-00	OUTLET SOCKET(NS10+6)	1
7	074-1192-20	OUTLET SOCKET(20P)	1
8	074-1236-10	OUTLET SOCKET(8P)	1
9	076-0368-06	PLUG(6P)	1
10	076-0368-18	PLUG(18P)	1
11	331-2025-21	CONN-HOLDER A	1
12	331-3236-22	MECH-BRKT(F)	1
13	331-3237-21	MECH-BRKT	1
14	331-3239-41	REAR PLATE with ANT.recept	1
15	331-3257-20	CONN-HOLDER B	1
16	880-1921V	TUNER	1
17	716-1494-50	IT SCREW(M2.6x6)	1
18	286-6666-51	SETPLATE(2708N-A)	1
	286-6666-06	SETPLATE(2708N-B)	1
19	311-1834-23	LOWER CASE	1
20	285-1968-00	GUIDE LABEL	1

NO.	PART NO.	DESCRIPTION	Q'TY
21	285-1967-01	GUIDE LABEL	1
22	331-3258-22	SIDE CASE(L)	1
23	331-3259-22	SIDE CASE(R)	1
24	331-3519-11	ES-PLATE	1
25	345-5300-01	CUSHIN SPONGE	1
26	347-6623-01	SPACER	1
27	347-6910-01	PROTECTOR	2
28	347-6964-01	PROTECT SHEET	2
29	347-6965-01	DOUBLE FACE	1
30	347-6966-02	PROTECT SHEET	1
31	347-6967-01	PROTECT SHEET	1
32	714-2004-8B	MACHINE SCREW(M2x4)	1
33	714-2603-8A	MACHINE SCREW(M2.6x3)	2
34	714-2605-8B	MACHINE SCREW(M2.6x5)	18
35	816-4021-50	FLAT WIRE	1
36	816-2638-01	FLAT WIRE	1
37	929-0730-80	CD-CHANG-MODULE	1
38	335-6788-01	MOLDED PART	1
39	076-0716-00	PLUG	1
40	076-0716-10	PLUG	1
41	----------	MAIN PWB	1

CD changer module section



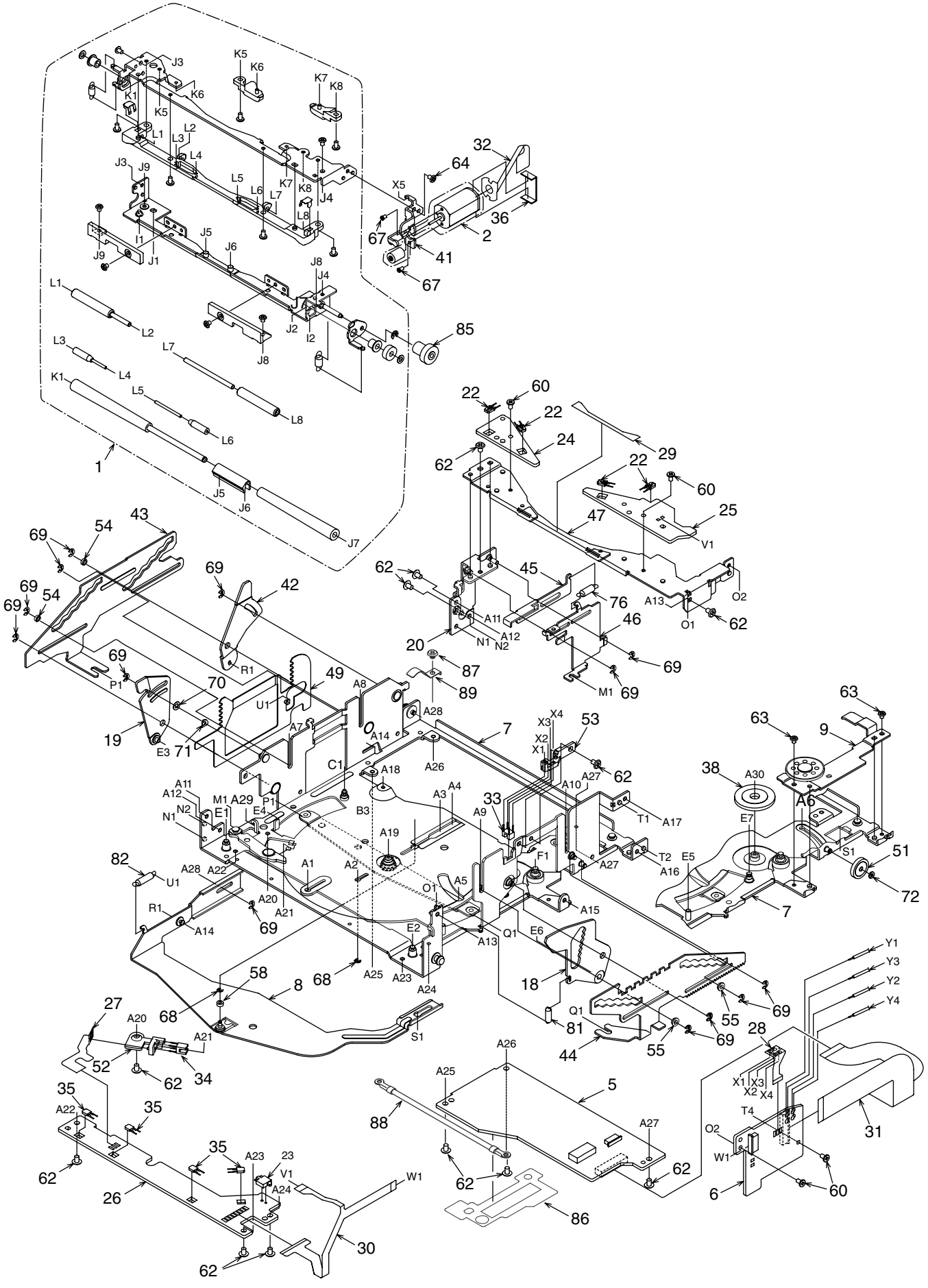
NO.	PART NO.	DESCRIPTION	Q'TY
1	311-1837-25	LOWER CASE	1
2	331-3896-22	PWB-HOLDER	1
3	305-0334-21	SIDE CASE	1
4	310-1741-27	UPPER CASE	1
5	629-0083-01	DAMPER	4
6	620-1086-20	DAMPER-H-PLT	4
7	750-3491-00	FL-SPRING	4

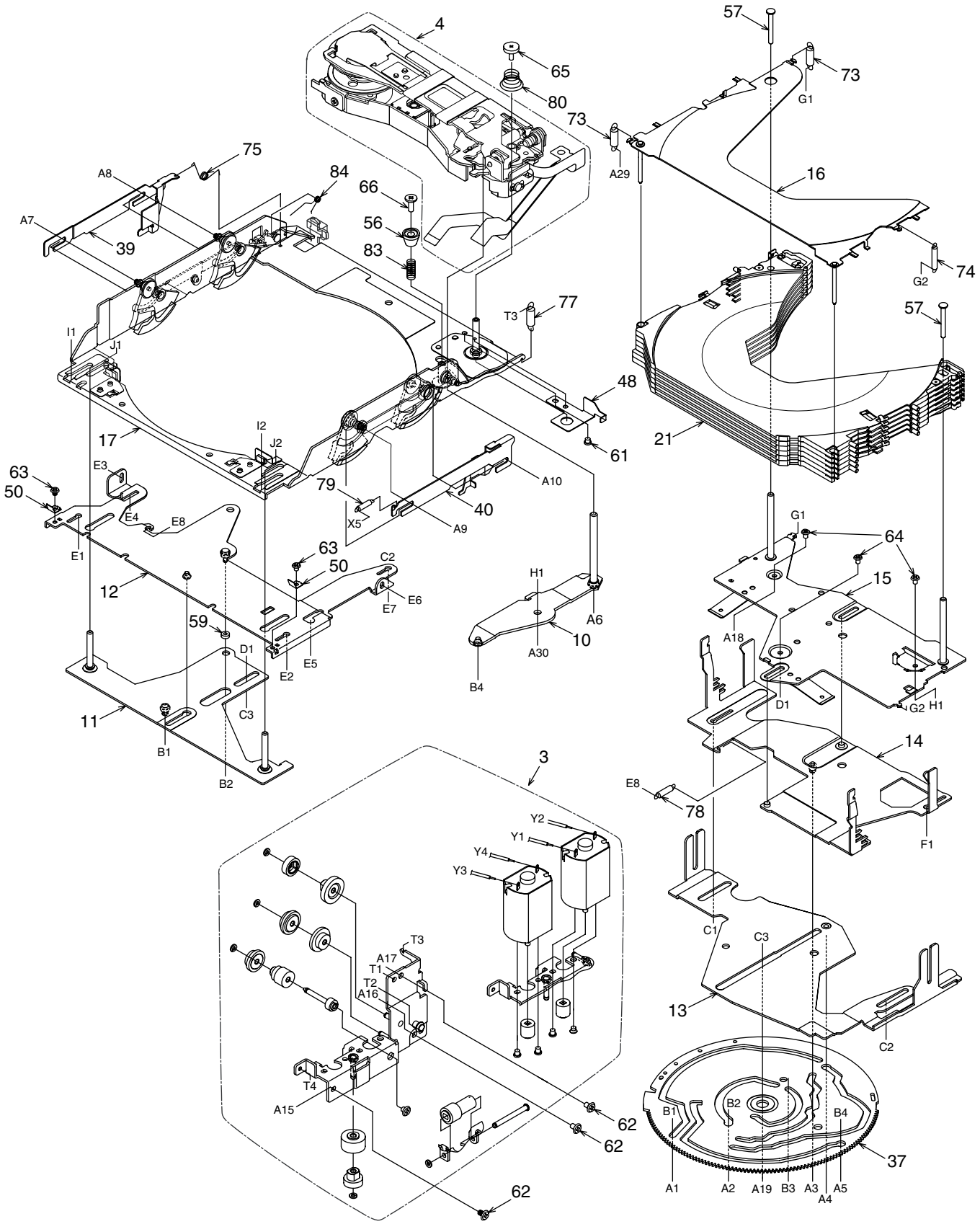
NO.	PART NO.	DESCRIPTION	Q'TY
8	----------	CD PWB	1
9	716-1716-02	SCREW(M2x3)	14
10	HBS-561-100	FPC(45P)	1
11	716-3450-00	SCREW(M1.7x2)	4
12	----------	CD CHANGER MECHANISM	1
13	347-6619-00	INSULATOR	1
14	345-8748-00	GASKET	1

* No. 12: Refer to CD changer mechanism section. (page 8-10)

CD changer mechanism section: Main chassis

(Parts list: page 10)

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65
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A8
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E8
E1
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X5
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A9
A10
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C2
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E6
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D1
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B2
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Y2
Y1
Y4
Y3
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A16
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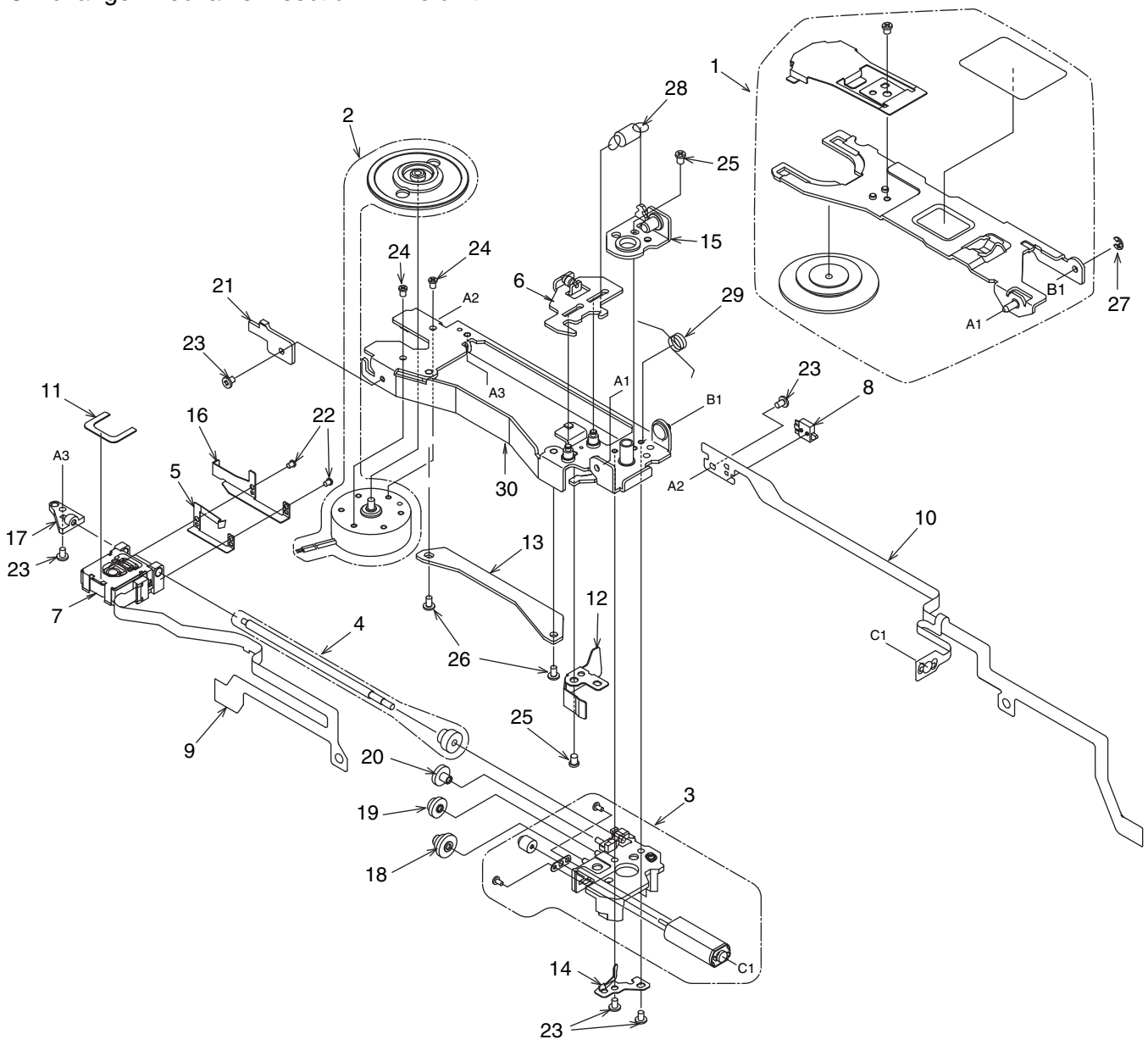
A29
16
74
G2
57
21
G1
64
15
A18
D1
G2
H1
14
E8
78
F1
C1
C3
13
C2
B1
B2
B4
37
A1
A2
A19
B3
A3
A4
A5

NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-562-100	LOADING UNIT	1
2	SMA-186-100	LOADING MOTOR ASSY	1
3	HBS-530-100	MOTOR PLATE SUB ASSY	1
4	HBS-531-104	DRIVE UNIT	1
5	----------	DSP PWB	1
6	----------	DRIVER PWB	1
7	966-1751-22	CHASSIS ASSY	1
8	966-0600-23	LOCK-P-RE-ASSY	1
9	966-0601-21	M-GEAR-P-ASSY	1
10	966-0602-26	DR-LINK-ASSY	1
11	966-0603-21	MODE-P-ASSY	1
12	966-0604-26	LOCK-PF-ASSY	1
13	966-0605-20	SHIFT-P-ASSY	1
14	966-0606-23	HLC-PLATE-ASSY	1
15	966-0607-26	COV-PLATE-ASSY	1
16	HBS-535-100	TOP-PLATE-ASSY	1
17	966-0652-24	DR-BASE-P-ASSY	1
18	966-0615-21	LOCK-L-RF-ASSY	1
19	966-0616-20	LOCK-L-LF-ASSY	1
20	966-0618-21	EJECT-B-ASSY	1
21	966-1742-20	DISC-HOL-ASSY	1
22	001-7042-00	DIODE (GL4800)	4
23	013-7414-50	DETECTOR SWITCH	1
24	----------	LED-L-PWB	1
25	----------	LED-R-PWB	1
26	----------	SENSOR PWB	1
27	039-2009-00	PIM-FPC (WITHOUT COMPONENT)	1
28	039-2010-00	PIV-FPC (WITHOUT COMPONENT)	1
29	039-2011-01	LED-FPC	1
30	039-2012-00	SENSOR-FPC	1
31	039-2013-04	MOS-FPC	1
32	039-2014-01	L-MOTOR-FPC (WITHOUT COMPONENT)	1
33	051-5806-01	IC (GPIS93)	1
34	051-5806-02	IC (GPIS95)	1
35	060-0252-01	PHOTO-TR	4
36	347-6657-01	LO-COVER SHEET	1
37	620-1041-26	GEAR PLATE	1
38	620-1042-20	M-GEAR-H	1
39	620-1056-22	HLR-PLATE-L	1
40	620-1580-20	HLR-PLATE-R	1
41	620-1576-20	LO-MOTOR-PLT	1
42	620-1066-20	LOCK LINK-LR	1
43	620-1067-21	SLIDEPLATE-L	1
44	620-1068-22	SLIDEPLATE-R	1
45	620-1071-21	EJECTARM	1
46	620-1072-20	EJECT PLATE	1
47	620-1577-20	FRONT PLATE	1
48	620-1083-20	FPC-PLATE	1

NO.	PART NO.	DESCRIPTION	Q'TY
49	620-1090-20	GAP PLATE	1
50	620-1568-21	RATTLEPLATE-F	2
51	621-0640-20	V-GEAR-G	1
52	621-0641-21	PI-HOLDER-M	1
53	621-0656-21	PI-HOLDER-V	1
54	622-1622-20	SL-G-ROLLER	2
55	622-1623-00	SL-G-ROLLER-R	2
56	622-1648-23	DU-STP-SLEEVE	1
57	622-1650-23	COV-PLATE PIN-B	2
58	622-1651-00	LOCK-RE-ROLLER	1
59	622-1652-00	LOCK-PF-ROLLER	1
60	716-1866-50	SCREW(M1.7x3)	4
61	716-1873-00	SCREW(M2x1.6)	1
62	716-3449-50	SCREW(M2x3)	15
63	716-3450-00	SCREW(M1.7x2)	4
64	716-3451-01	SCREW(M1.7x2.5)	4
65	716-3459-01	SCREW(M1.7x5)	1
66	716-3466-53	SCREW(M2x6)	1
67	738-1422-1B	SCREW(M1.2X2.2)	2
68	743-1200-10	E-RING	2
69	743-1500-10	E-RING	13
70	746-0624-00	WASHER	1
71	746-0712-23	WASHER	1
72	746-0761-00	WASHER	1
73	750-3478-01	TOP-P-SP-L	2
74	750-3479-01	TOP-P-SP-R	1
75	750-3480-01	DR-LOCK-SP	1
76	750-3483-00	EJECT-A-SPRING	1
77	750-3484-01	DR-BASE-SPRING	1
78	750-3485-01	TENSION-SP-L	1
79	750-3486-01	LO-TENSION-SP	1
80	750-3489-01	DRIVE-P-SPRING	1
81	750-3496-00	GAP-P-SPRING R	1
82	750-3497-00	GAP-P-SPRING L	1
83	750-6711-01	DU-STP-SPRING	1
84	750-6712-01	DR-LOCK-SP-B	1
85	621-0651-22	LOADGEAR-A	1
86	347-7860-20	FPC COVER	1
87	716-1850-01	SCREW(M2x2)	1
88	854-4348-01	EXTENSION LEAD	1
89	620-1604-20	DR-PLATE-SCREW	1

* No.4 : Refer to Drive unit section.(page 11)

CD changer mechanism section: Drive unit



NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-532-101	CLAMPER SUB ASSY	1
2	SMA-193-101	SPINDLE MOTOR ASSY	1
3	SMA-191-100	SLED MOTOR ASSY	1
4	HBS-515-101	LS-ASSY	1
5	620-1587-83	SH-SP-PLT	1
6	HBS-542-101	D-SHIFT-P-ASSY	1
7	969-0011-01	PICK UP-ASSY	1
8	013-7414-50	DETECT SWITCH	1
9	039-2015-01	P/U-FPC	1
10	039-2016-02	M/S-FPC (WITHOUT COMPONENT)	1
11	347-6632-00	PU-SHEET	1
12	620-1078-21	PUSH PLATE	1
13	620-1080-22	PU-GUIDE PLATE	1
14	620-1081-20	SCREW PUSH-PLT	1
15	966-0650-20	SPRING PLT ASSY	1
16	620-1730-81	SCREW-HOL-PLT	1

NO.	PART NO.	DESCRIPTION	Q'TY
17	621-0670-20	LS-HOLDER-L	1
18	621-0673-20	D-GEAR A	1
19	621-0674-20	D-GEAR B	1
20	621-0675-20	D-GEAR C	1
21	621-0683-21	DU-STOPPER	1
22	716-3511-01	SCREW(M1.4x3)	2
23	716-3470-01	SCREW(M1.7x3)	5
24	738-1720-1H	SCREW(M1.7x2)	2
25	738-2025-1H	SCREW(M2x2.5)	2
26	716-3474-01	SCREW(M1.7x3)	2
27	743-1500-20	E-RING	1
28	750-3487-00	SHIFT-P-SPRING	1
29	750-3504-00	CLAMP-A-SPRING	1
30	966-0649-02	DRIVE PLT-ASSY	1

ELECTRICAL PARTS LIST

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.
Some parts depend on each model. The model name is specified in the description.

Main PWB(B1) section

REF No.	PART No.	DESCRIPTION
BL101	880-1921V	TUNER
C 101	166-1511-50	150pF CH
C 102	166-4701-50	47pF CH
C 103	166-4701-50	47pF CH
C 104	178-1542-78	0.15uF
C 105	168-1032-55	50V 0.01uF K
C 106	168-1032-55	50V 0.01uF K
C 107	178-1052-78	1uF
C 108	168-1042-78	16V 0.1uF
C 109	188-1063-38	16V 10uF
C 110	168-3322-55	3300pF K
C 111	168-1022-55	1000pF K
C 112	168-4732-78	0.047uF K
C 113	166-1501-50	15pF CH
C 115	168-1022-55	1000pF K
C 116	168-1022-55	1000pF K
C 117	166-2201-50	22pF CH
C 118	187-1073-37	16V 100uF
C 119	178-1052-78	1uF
C 120	166-1201-50	12pF CH
C 121	178-2242-78	0.22uF
C 122	188-4763-18	6.3V 47uF
C 123	166-1007-50	10pF CH
C 124	168-5612-55	560pF Z
C 125	166-4701-50	47pF CH
C 126	188-1073-28	10V 100uF
C 127	188-2253-68	50V 2.2uF
C 128	043-0277-51	0.022uF
C 129	168-1042-78	16V 0.1uF
C 130	166-5601-50	56pF CH
C 131	188-1073-28	10V 100uF
C 132	168-1032-55	50V 0.01uF K
C 133	168-3312-55	330pF K
C 134	166-1011-50	100pF CH
C 135	166-1011-50	100pF CH
C 136	168-1042-78	16V 0.1uF
C 137	188-1073-28	10V 100uF
C 138	168-1022-55	1000pF K
C 140	178-1052-78	1uF
C 142	168-1232-55	0.012uF K
C 143	186-1053-69	50V 1uF
C 144	043-0277-51	0.022uF
C 145	188-4763-38	16V 47uF
C 147	168-1022-55	1000pF K
C 149	168-2232-55	0.022uF K
C 150	188-4763-38	16V 47uF
C 151	166-1011-50	100pF CH
C 152	166-1011-50	100pF CH
C 153	166-1011-50	100pF CH
C 154	166-1011-50	100pF CH
C 155	166-1801-50	18pF CH
C 156	168-3932-78	0.039uF K
C 157	168-3932-78	0.039uF K
C 158	166-1501-50	15pF CH
C 159	168-4722-55	4700pF K
C 160	168-3932-78	0.039uF K
C 161	168-3932-78	0.039uF K
C 162	168-2222-55	2200pF K
C 201	168-1042-78	16V 0.1uF
C 202	166-1011-50	100pF CH
C 203	166-1011-50	100pF CH
C 204	188-4763-18	6.3V 47uF
C 205	168-1042-78	16V 0.1uF
C 206	168-1022-55	1000pF K
C 207	168-1032-55	50V 0.01uF K
C 208	168-1042-78	16V 0.1uF
C 209	166-1011-50	100pF CH
C 210	166-1011-50	100pF CH
C 211	166-1011-50	100pF CH
C 212	166-1011-50	100pF CH
C 213	166-1011-50	100pF CH
C 214	168-1042-78	16V 0.1uF
C 216	168-1042-78	16V 0.1uF
C 217	168-1022-55	1000pF K
C 301	042-1548-52	10V 220uF
C 302	187-4763-35	16V 47uF
C 305	188-1063-38	16V 10uF
C 306	042-1562-65	10V 220uF
C 307	166-2201-50	22pF CH
C 308	163-1073-35	16V 100uF
C 309	168-1042-78	16V 0.1uF
C 310	168-6822-55	6800pF K
C 311	188-1073-28	10V 100uF
C 312	188-1063-38	16V 10uF
C 313	187-1073-27	10V 100uF
C 314	168-1042-78	16V 0.1uF
C 315	163-1073-35	16V 100uF
C 316	187-1073-37	16V 100uF
C 317	187-1073-37	16V 100uF
C 318	168-2222-55	2200pF K
C 319	168-1042-78	16V 0.1uF
C 321	168-2222-55	2200pF K
C 322	168-2222-55	2200pF K
C 323	168-2222-55	2200pF K
C 324	168-2222-55	2200pF K
C 325	168-2222-55	2200pF K
C 326	168-2222-55	2200pF K
C 327	168-2222-55	2200pF K
C 328	168-2222-55	2200pF K
C 329	168-1042-78	16V 0.1uF
C 330	042-0416-57	10V 47uF M TAN
C 331	163-1063-35	16V 10uF
C 332	168-2222-55	2200pF K
C 333	168-1042-78	16V 0.1uF
C 334	042-1551-02	16V 1000uF
C 335	172-1041-15	0.1uF
C 336	168-1042-78	16V 0.1uF
C 338	187-1073-37	16V 100uF
C 339	188-1053-68	50V 1uF
C 401	178-4742-78	0.47uF
C 402	163-2263-35	16V 22uF
C 403	042-0592-73	50V 1uF
C 404	188-1053-68	50V 1uF
C 405	188-1053-68	50V 1uF
C 406	188-1053-68	50V 1uF
C 407	188-1053-68	50V 1uF
C 408	042-0592-73	50V 1uF
C 409	188-1053-68	50V 1uF
C 410	188-1053-68	50V 1uF
C 411	178-1842-78	0.18uF
C 412	178-1842-78	0.18uF
C 414	178-1842-78	0.18uF
C 415	178-1842-78	0.18uF
C 416	168-2222-55	2200pF K
C 417	168-8212-55	820pF K
C 418	168-8212-55	820pF K
C 419	168-8212-55	820pF K
C 420	168-8212-55	820pF K
C 421	042-0592-58	16V 10uF
C 422	042-0592-58	16V 10uF
C 423	168-1832-55	50V 0.018uF K
C 424	042-0592-58	16V 10uF
C 425	042-0592-58	16V 10uF
C 426	042-0592-58	16V 10uF
C 427	042-0592-58	16V 10uF
C 428	166-5096-50	5pF CH
C 429	166-5096-50	5pF CH
C 430	166-2201-50	22pF CH
C 431	166-2201-50	22pF CH
C 432	166-5096-50	5pF CH
C 433	042-0592-58	16V 10uF
C 434	042-0592-58	16V 10uF
C 435	042-0592-58	16V 10uF
C 436	042-0592-58	16V 10uF
C 437	166-5096-50	5pF CH
C 438	168-1042-78	16V 0.1uF
C 439	166-5601-50	56pF CH
C 440	166-5601-50	56pF CH
C 441	166-2201-50	22pF CH
C 442	166-2201-50	22pF CH
C 443	168-6822-55	6800pF K
C 444	166-2201-50	22pF CH
C 445	166-2201-50	22pF CH
C 446	166-5601-50	56pF CH
C 447	166-5601-50	56pF CH
C 448	166-1011-50	100pF CH
C 449	166-1011-50	100pF CH
C 450	178-1052-78	1uF
C 451	178-1052-78	1uF
C 452	166-1011-50	100pF CH
C 453	166-1011-50	100pF CH
C 454	188-1053-68	50V 1uF
C 455	166-5601-50	56pF CH
C 456	166-5601-50	56pF CH
C 457	166-2201-50	22pF CH
C 458	166-2201-50	22pF CH
C 459	166-2201-50	22pF CH
C 460	166-2201-50	22pF CH
C 461	166-5601-50	56pF CH
C 462	166-5601-50	56pF CH
C 463	188-1053-68	50V 1uF
C 464	042-1548-52	10V 220uF
C 465	042-1548-52	10V 220uF
C 466	042-1548-52	10V 220uF
C 467	042-1548-52	10V 220uF
C 468	042-1548-52	10V 220uF
C 469	042-1548-52	10V 220uF
C 470	042-1548-52	10V 220uF
C 471	042-1548-52	10V 220uF
C 501	168-2232-55	0.022uF K
C 508	168-1022-55	1000pF K
C 509	168-1022-55	1000pF K
C 510	168-1022-55	1000pF K
C 511	168-1022-55	1000pF K
C 512	168-1022-55	1000pF K
C 601	042-1562-67	16V 10uF
C 602	042-1562-67	16V 10uF
C 603	042-1562-67	16V 10uF
C 604	042-1562-67	16V 10uF
C 606	168-1022-55	1000pF K
C 607	168-1032-55	50V 0.01uF K
C 608	168-1022-55	1000pF K
C 611	168-1022-55	1000pF K
C 612	168-1022-55	1000pF K
C 614	168-1022-55	1000pF K
C 615	168-2232-55	0.022uF K
C 616	188-1066-38	16V 10uF NP
C 617	188-1066-38	16V 10uF NP

REF No.	PART No.	DESCRIPTION
C 618	188-1066-38	16V 10uF NP
C 619	188-1066-38	16V 10uF NP
CCT201	050-0145-52	1/16W 1k ohm x4J
D 101	001-9008-90	1SV250
D 102	001-9008-90	1SV250
D 301	001-0529-32	MA8056M
D 302	001-0504-49	HZS9C3L
D 303	001-0529-34	MA8062L
D 304	001-0504-48	HZS9C2L
D 305	001-0516-90	MA111
D 306	001-0466-90	S5688B
D 307	001-0516-90	MA111
D 308	001-0466-90	S5688B
D 309	001-2015-00	RL253
D 310	001-0466-90	S5688B
D 311	001-0466-90	S5688B
D 401	001-0516-90	MA111
D 402	001-0516-90	MA111
D 404	001-0356-91	1SS184
D 602	001-0584-35	MA8240
D 603	001-0466-90	S5688B
D 604	001-0516-90	MA111
D 605	001-0516-90	MA111
D 606	001-0516-90	MA111
D 608	001-0422-38	MTZJ36
D 609	001-0529-44	MA8082-M
IC 101	051-4617-90	LA1061M
IC 102	051-3020-90	NJM4565V
IC 103	051-4607-90	SAA6581
IC 104	051-6212-08	LC72191JM
IC 201	051-9418-08	BR93L46FJ-WE2
IC 202	052-3177-40	M30624MGA-EM6GP
IC 203	051-5436-08	S-80933ANMP
IC 301	051-3020-90	NJM4565V
IC 302	051-3020-90	NJM4565V
IC 303	051-5441-08	BD4828G
IC 304	051-3341-90	BD3931FP
IC 401	051-5027-00	LC75412WS
IC 402	051-3020-90	NJM4565V
IC 403	051-1407-00	NJM4556AL
IC 404	051-1407-00	NJM4556AL
IC 405	051-3034-90	NJM4558V
IC 406	051-1407-00	NJM4556AL
IC 407	051-1407-00	NJM4556AL
J 301	074-1141-00	NS10+6
J 401	074-1236-10	8P
J 501	074-1192-20	20P
J 602	074-1013-30	A-12MW
J 603	074-1087-12	A-16MW
L 101	010-2198-65	0.1uH
L 102	010-2198-53	5.6uH
L 103	010-2312-52	0.27uH
L 104	010-2003-04	NLV32 22uH J
L 105	010-6009-76	22uH
L 106	010-6009-76	22uH
L 201	010-3407-66	22uH
L 301	010-8028-00	COIL
P 101	076-0368-06	6P
P 102	076-0368-18	18P
P 202	074-0834-10	10P
P 601	074-0898-06	6P
P 602	074-0898-18	18P
Q 101	192-4116-00	2SC4116
Q 102	192-4116-00	2SC4116
Q 103	125-2026-91	UN5211
Q 104	125-2026-91	UN5211
Q 105	192-4116-00	2SC4116
Q 106	192-4116-51	2SC4116GR

REF No.	PART No.	DESCRIPTION
Q 107	125-2026-91	UN5211
Q 108	192-4116-51	2SC4116GR
Q 109	190-1162-00	2SA1162
Q 110	190-1162-00	2SA1162
Q 202	125-2026-91	UN5211
Q 203	125-0020-96	UN5110
Q 301	193-2118-00	2SD2118
Q 302	125-9017-92	UMD3
Q 303	103-2353-00	2SD2353
Q 304	125-9017-92	UMD3
Q 305	192-4116-00	2SC4116
Q 306	193-2118-00	2SD2118
Q 307	125-2026-95	UN521N
Q 308	193-1858-00	2SD1858
Q 309	131-1188-00	2SB1188
Q 310	125-9017-92	UMD3
Q 311	125-2026-95	UN521N
Q 312	190-1298-00	2SA1298
Q 313	125-2026-91	UN5211
Q 314	131-1188-00	2SB1188
Q 401	125-2026-91	UN5211
Q 402	125-9017-92	UMD3
Q 404	191-0709-00	2SB709A
Q 405	191-0709-00	2SB709A
Q 406	191-0709-00	2SB709A
Q 407	191-0709-00	2SB709A
Q 408	125-2026-91	UN5211
Q 409	191-0709-00	2SB709A
Q 410	193-0601-00	2SD601A
Q 411	193-0601-00	2SD601A
Q 501	125-2026-91	UN5211
Q 601	125-0020-91	UN5111
Q 602	192-4116-00	2SC4116
Q 603	125-2026-91	UN5211
Q 604	125-2026-91	UN5211
Q 605	192-4116-00	2SC4116
Q 606	125-2026-91	UN5211
Q 607	192-4116-00	2SC4116
Q 608	192-4116-00	2SC4116
Q 610	125-0020-91	UN5111
Q 613	192-4116-00	2SC4116
R 101	119-1041-15	1/10W 100k ohm
R 102	119-1041-15	1/10W 100k ohm
R 103	119-2731-15	1/10W 27k ohm
R 104	119-2731-15	1/10W 27k ohm
R 105	119-1041-15	1/10W 100k ohm
R 106	119-1041-15	1/10W 100k ohm
R 107	119-1031-15	1/10W 10k ohm
R 108	119-1031-15	1/10W 10k ohm
R 109	119-5631-15	1/10W 56k ohm
R 111	119-3911-15	1/10W 390 ohm
R 112	119-4731-15	1/10W 47k ohm
R 113	119-1021-15	1/10W 1k ohm
R 114	119-1031-15	1/10W 10k ohm
R 115	119-1031-15	1/10W 10k ohm
R 116	119-1011-15	1/10W 100 ohm
R 117	119-4741-15	1/10W 470k ohm
R 118	119-1021-15	1/10W 1k ohm
R 119	119-1021-15	1/10W 1k ohm
R 121	119-2221-15	1/10W 2.2k ohm
R 122	119-1021-15	1/10W 1k ohm
R 123	119-8201-15	1/10W 82 ohm
R 124	119-1021-15	1/10W 1k ohm
R 125	119-1031-15	1/10W 10k ohm
R 126	119-4721-15	1/10W 4.7k ohm
R 127	119-1031-15	1/10W 10k ohm
R 128	119-1021-15	1/10W 1k ohm
R 129	119-2221-15	1/10W 2.2k ohm

REF No.	PART No.	DESCRIPTION
R 130	119-4721-15	1/10W 4.7k ohm
R 131	119-3321-15	1/10W 3.3k ohm
R 132	119-1001-15	1/10W 10 ohm
R 133	119-1501-15	1/10W 15 ohm
R 134	119-2221-15	1/10W 2.2k ohm
R 135	119-2221-15	1/10W 2.2k ohm
R 136	119-1031-15	1/10W 10k ohm
R 137	119-1031-15	1/10W 10k ohm
R 138	119-4721-15	1/10W 4.7k ohm
R 139	119-4721-15	1/10W 4.7k ohm
R 140	119-2221-15	1/10W 2.2k ohm
R 141	119-1021-15	1/10W 1k ohm
R 142	119-1021-15	1/10W 1k ohm
R 143	119-1021-15	1/10W 1k ohm
R 144	119-2701-15	1/10W 27 ohm
R 145	119-4731-15	1/10W 47k ohm
R 201	119-4731-15	1/10W 47k ohm
R 202	119-4731-15	1/10W 47k ohm
R 203	119-1021-15	1/10W 1k ohm
R 204	119-1021-15	1/10W 1k ohm
R 206	119-4731-15	1/10W 47k ohm
R 207	119-1021-15	1/10W 1k ohm
R 208	119-4731-15	1/10W 47k ohm
R 209	119-4731-15	1/10W 47k ohm
R 210	119-4731-15	1/10W 47k ohm
R 211	119-4731-15	1/10W 47k ohm
R 212	119-4731-15	1/10W 47k ohm
R 213	119-4731-15	1/10W 47k ohm
R 214	119-4731-15	1/10W 47k ohm
R 215	119-4731-15	1/10W 47k ohm
R 216	119-4731-15	1/10W 47k ohm
R 217	119-4731-15	1/10W 47k ohm
R 219	119-2231-15	1/10W 22k ohm
R 220	119-4731-15	1/10W 47k ohm
R 221	119-2231-15	1/10W 22k ohm
R 222	119-4731-15	1/10W 47k ohm
R 223	119-4731-15	1/10W 47k ohm
R 225	119-4731-15	1/10W 47k ohm
R 226	119-1021-15	1/10W 1k ohm
R 227	119-1021-15	1/10W 1k ohm
R 228	119-4731-15	1/10W 47k ohm
R 230	119-4731-15	1/10W 47k ohm
R 231	119-4731-15	1/10W 47k ohm
R 232	119-1031-15	1/10W 10k ohm
R 233	119-1041-15	1/10W 100k ohm
R 235	119-4731-15	1/10W 47k ohm
R 236	119-4731-15	1/10W 47k ohm
R 237	119-4731-15	1/10W 47k ohm
R 238	119-4731-15	1/10W 47k ohm
R 239	119-1041-15	1/10W 100k ohm
R 241	119-4731-15	1/10W 47k ohm
R 242	119-1021-15	1/10W 1k ohm
R 244	119-6821-15	1/10W 6.8k ohm
R 245	119-1021-15	1/10W 1k ohm
R 246	119-1031-15	1/10W 10k ohm
R 248	119-4731-15	1/10W 47k ohm
R 250	119-4731-15	1/10W 47k ohm
R 252	119-4731-15	1/10W 47k ohm
R 301	119-1031-15	1/10W 10k ohm
R 302	119-1031-15	1/10W 10k ohm
R 303	119-4731-15	1/10W 47k ohm
R 304	119-4731-15	1/10W 47k ohm
R 305	117-2211-15	1/8W 220 ohm
R 306	119-1041-15	1/10W 100k ohm
R 307	032-0148-54	1/16W 180k ohm
R 308	032-0148-50	1/10W 100k ohm
R 309	111-2211-98	1/4W 220 ohm
R 310	119-1041-15	1/10W 100k ohm

REF No.	PART No.	DESCRIPTION
R 311	119-5611-15	1/10W 560 ohm
R 312	119-1031-15	1/10W 10k ohm
R 313	116-3911-15	1/4W 390 ohm
R 314	119-1031-15	1/10W 10k ohm
R 315	116-1211-15	1/4W 1.2k ohm
R 316	119-1031-15	1/10W 10k ohm
R 317	116-1011-15	1/4W 100 ohm
R 318	119-4721-15	1/10W 4.7k ohm
R 319	116-1091-15	1/4W 1 ohm
R 320	119-1031-15	1/10W 10k ohm
R 321	116-1211-15	1/4W 1.2k ohm
R 322	119-3321-15	1/10W 3.3k ohm
R 323	119-1031-15	1/10W 10k ohm
R 324	116-1091-15	1/4W 1 ohm
R 326	116-1531-15	1/4W 15k ohm
R 327	116-2721-15	1/4W 2.7k ohm
R 401	119-1831-15	1/10W 18k ohm
R 402	119-2731-15	1/10W 27k ohm
R 403	119-2731-15	1/10W 27k ohm
R 404	119-2731-15	1/10W 27k ohm
R 405	119-2731-15	1/10W 27k ohm
R 406	119-2731-15	1/10W 27k ohm
R 407	119-2731-15	1/10W 27k ohm
R 408	116-1211-15	1/4W 120 ohm
R 413	119-4721-15	1/10W 4.7k ohm
R 414	119-4721-15	1/10W 4.7k ohm
R 415	119-0000-05	1/10W 0 ohm JW
R 416	119-4721-15	1/10W 4.7k ohm
R 417	119-4721-15	1/10W 4.7k ohm
R 418	119-1031-15	1/10W 10k ohm
R 419	119-1031-15	1/10W 10k ohm
R 420	032-0106-65	1/10W 100k ohm
R 421	032-0106-65	1/10W 100k ohm
R 422	032-0106-65	1/10W 100k ohm
R 423	032-0106-65	1/10W 100k ohm
R 424	032-0106-69	1/10W 39k ohm
R 425	032-0106-69	1/10W 39k ohm
R 426	032-0106-69	1/10W 39k ohm
R 427	032-0106-69	1/10W 39k ohm
R 428	119-5621-15	1/10W 5.6k ohm
R 429	119-5621-15	1/10W 5.6k ohm
R 430	119-5621-15	1/10W 5.6k ohm
R 431	119-5621-15	1/10W 5.6k ohm
R 432	119-3321-15	1/10W 3.3k ohm
R 433	119-1031-15	1/10W 10k ohm
R 434	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R 435	119-3321-15	1/10W 3.3k ohm
R 436	119-1031-15	1/10W 10k ohm
R 437	119-1031-15	1/10W 10k ohm
R 438	119-3321-15	1/10W 3.3k ohm
R 439	119-3321-15	1/10W 3.3k ohm
R 440	117-1001-15	1/8W 10 ohm
R 441	119-2231-15	1/10W 22k ohm
R 442	119-2231-15	1/10W 22k ohm
R 443	117-1001-15	1/8W 10 ohm
R 444	119-2031-15	1/10W 20k ohm
R 445	119-2231-15	1/10W 22k ohm
R 446	119-3931-15	1/10W 39k ohm
R 447	119-3931-15	1/10W 39k ohm
R 448	119-1021-15	1/10W 1k ohm
R 449	119-1031-15	1/10W 10k ohm
R 450	119-1031-15	1/10W 10k ohm
R 451	119-1531-15	1/10W 15k ohm
R 452	119-2231-15	1/10W 22k ohm
R 453	117-1001-15	1/8W 10 ohm
R 454	119-2231-15	1/10W 22k ohm
R 455	117-1001-15	1/8W 10 ohm
R 456	119-2231-15	1/10W 22k ohm
R 457	032-0140-52	1/10W 33k ohm
R 458	032-0140-89	1/10W 47k ohm
R 459	119-1241-15	1/10W 120k ohm
R 460	119-1241-15	1/10W 120k ohm
R 461	032-0140-89	1/10W 47k ohm
R 462	032-0140-52	1/10W 33k ohm
R 463	117-1001-15	1/8W 10 ohm
R 464	119-2231-15	1/10W 22k ohm
R 465	119-2231-15	1/10W 22k ohm
R 466	117-1001-15	1/8W 10 ohm
R 467	119-2031-15	1/10W 20k ohm
R 468	119-2231-15	1/10W 22k ohm
R 469	119-1031-15	1/10W 10k ohm
R 470	032-0140-89	1/10W 47k ohm
R 471	032-0140-89	1/10W 47k ohm
R 472	032-0140-19	1/10W 75k ohm
R 473	032-0140-19	1/10W 75k ohm
R 474	119-1041-15	1/10W 100k ohm
R 475	119-3931-15	1/10W 39k ohm
R 476	119-3931-15	1/10W 39k ohm
R 477	119-1031-15	1/10W 10k ohm
R 478	119-1031-15	1/10W 10k ohm
R 479	119-4731-15	1/10W 47k ohm
R 480	117-1001-15	1/8W 10 ohm

REF No.	PART No.	DESCRIPTION
R 481	119-2231-15	1/10W 22k ohm
R 482	117-1001-15	1/8W 10 ohm
R 483	119-2231-15	1/10W 22k ohm
R 484	119-1031-15	1/10W 10k ohm
R 485	119-1041-15	1/10W 100k ohm
R 486	119-4731-15	1/10W 47k ohm
R 511	119-1021-15	1/10W 1k ohm
R 512	119-1021-15	1/10W 1k ohm
R 513	119-1021-15	1/10W 1k ohm
R 601	119-1031-15	1/10W 10k ohm
R 602	119-5631-15	1/10W 56k ohm
R 603	119-3011-15	1/10W 300 ohm
R 604	119-3011-15	1/10W 300 ohm
R 607	119-1031-15	1/10W 10k ohm
R 608	119-3321-15	1/10W 3.3k ohm
R 609	119-2231-15	1/10W 22k ohm
R 610	119-1031-15	1/10W 10k ohm
R 611	119-4721-15	1/10W 4.7k ohm
R 612	119-1531-15	1/10W 15k ohm
R 613	119-3321-15	1/10W 3.3k ohm
R 614	119-4731-15	1/10W 47k ohm
R 616	119-4731-15	1/10W 47k ohm
R 617	119-2231-15	1/10W 22k ohm
R 619	119-1031-15	1/10W 10k ohm
R 620	119-1031-15	1/10W 10k ohm
R 621	119-1031-15	1/10W 10k ohm
R 623	119-5631-15	1/10W 56k ohm
R 628	119-5631-15	1/10W 56k ohm
R 629	119-5631-15	1/10W 56k ohm
R 631	119-1021-15	1/10W 1k ohm
R 632	119-5621-15	1/10W 5.6k ohm
R 633	119-5621-15	1/10W 5.6k ohm
R 635	119-3011-15	1/10W 300 ohm
R 636	119-3011-15	1/10W 300 ohm
SUP	060-0122-91	DSP-141N-SOOB
SUP	060-0122-91	DSP-141N-SOOB
TH 301	002-0229-90	1.8 ohm
TH 302	002-0229-90	1.8 ohm
VR 101	012-5203-63	470k ohm
VR 102	012-5203-56	10k ohm
X 101	061-3013-00	4.33MHz
X 102	061-1066-00	7.2MHz
X 201	060-1505-50	10MHz
PWB	039-2758-00	PWB(WITHOUT COMPONENT)

CD PWB(B2) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
C 1	168-4735-56	0.047uF Z
C 2	168-4735-56	0.047uF Z
C 4	168-1222-55	1200pF K
C 5	163-2263-35	16V22uF
C 6	168-1222-55	1200pF K
C 12	168-1222-55	1200pF K
C 15	168-1222-55	1200pF K
C 16	163-2263-35	16V22uF
C 18	168-1045-56	0.1uF Z
C 19	166-1011-50	100pF CH
C 21	168-1032-55	0.01uF K
C 22	168-1045-56	0.1uF Z
C 23	168-1045-56	0.1uF Z
C 24	168-1032-55	0.01uF K
C 25	163-1073-15	6.3V100uF
C 26	178-1052-78	1uF
C 27	168-1045-56	0.1uF Z
C 28	042-0671-01	10V 47uF TA
C 29	168-1045-56	0.1uF Z

REF No.	PART No.	DESCRIPTION
C 30	178-3342-78	0.33uF
C 31	042-1673-00	10V 220uF
CCT 4	050-0140-55	1/32W 2.2k ohm x4J
CCT 5	050-0145-54	1/16W 47k ohm x4
CCT 6	050-0145-53	1/16W 220k ohm x4J
D 2	001-2610-90	RB480KTL
IC 2	051-5445-08	BD5227G-TR
IC 3	052-5061-01	M30621MCM-4S5GP
IC 4	051-9402-78	BR93L56RFVM-W
IC 5	051-3332-90	NJU7222U33
IC 6	051-3293-90	BA033SFP-E2
J 1	074-1189-95	45P
J 3	074-1237-70	20P
P 1	076-0478-55	PLUG
Q 3	190-1162-00	2SA1162
Q 4	198-3018-00	2SK3018
Q 5	131-1188-50	2SB1188PQR
Q 6	198-3018-00	2SK3018
Q 7	125-2004-92	RN1402

REF No.	PART No.	DESCRIPTION
Q 7	125-2020-92	DTC114EKA-T146
Q 8	125-2004-92	RN1402
Q 8	125-2020-92	DTC114EKA-T146
Q 9	125-0014-92	DTA114EK
Q 9	125-0002-92	RN2402
Q 53	193-0601-00	2SD601A
R 2	119-2211-15	1/10W 220 ohm
R 4	119-4731-15	1/10W 47k ohm
R 8	119-4731-15	1/10W 47k ohm
R 10	119-2211-15	1/10W 220 ohm
R 13	119-1041-15	1/10W 100k ohm
R 14	119-2221-15	1/10W 2.2k ohm
R 15	119-1041-15	1/10W 100k ohm
R 16	119-1021-15	1/10W 1k ohm
R 20	119-4731-15	1/10W 47k ohm
R 24	119-4731-15	1/10W 47k ohm
R 25	119-1031-15	1/10W 10k ohm
R 26	119-4721-15	1/10W 4.7k ohm
R 27	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R 28	119-1041-15	1/10W 100k ohm
R 29	119-1041-15	1/10W 100k ohm
R 31	119-4731-15	1/10W 47k ohm
R 32	119-0000-05	1/10W 0 ohm JW
R 35	119-0000-05	1/10W 0 ohm JW
R 36	119-4731-15	1/10W 47k ohm
R 37	119-4731-15	1/10W 47k ohm
R 38	119-2231-15	1/10W 22k ohm

REF No.	PART No.	DESCRIPTION
R 39	119-2231-15	1/10W 22k ohm
R 40	119-2231-15	1/10W 22k ohm
R 41	119-4711-15	1/10W 470 ohm
R 42	119-2231-15	1/10W 22k ohm
R 43	119-2241-15	1/10W 220k ohm
R 60	119-0000-05	1/10W 0 ohm JW
R 530	119-4731-15	1/10W 47k ohm
R 550	119-4731-15	1/10W 47k ohm

REF No.	PART No.	DESCRIPTION
TM 1	073-0768-90	TERMINAL
TM 2	073-0766-90	TERMINAL
TM 4	073-0766-90	TERMINAL
TM 5	073-0766-90	TERMINAL
X 1	060-1533-90	10MHz
PWB	039-2532-20	PWB(WITHOUT COMPONENT)

DSP PWB(B3) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
C 1	042-0671-01	10V 47uF TA
C 2	168-4735-56	0.047uF Z
C 3	046-4722-58	4700pF
C 4	046-1032-78	0.01uF
C 5	168-1045-56	0.1uF Z
C 6	042-0671-01	10V 47uF TA
C 7	168-1045-56	0.1uF Z
C 8	168-1045-56	0.1uF Z
C 9	045-1007-50	10pF
C 10	168-1045-56	0.1uF Z
C 11	045-1007-50	10pF
C 12	168-1045-56	0.1uF Z
C 13	042-0672-00	25V 47uF TA
C 14	168-4735-56	0.047uF Z
C 15	168-4735-56	0.047uF Z
C 16	168-4735-56	0.047uF Z
C 17	178-1052-78	1uF
C 18	045-4701-50	47pF
C 19	168-1045-56	0.1uF Z
C 20	046-4712-58	470pF
C 21	046-4712-58	470pF
C 22	168-1045-56	0.1uF Z
C 23	046-1532-78	0.015uF
C 24	168-1045-56	0.1uF Z
C 25	046-6822-58	6800pF
C 26	046-1032-78	0.01uF
C 28	046-1022-58	1000pF
C 29	046-3332-78	0.033uF
C 32	046-4722-58	4700pF
C 33	046-1522-58	1500pF
C 34	168-1045-56	0.1uF Z
C 35	046-1532-78	0.015uF
C 36	168-1045-56	0.1uF Z
C 37	168-1045-56	0.1uF Z
C 38	042-0671-01	10V 47uF TA
C 39	178-1052-78	1uF
C 40	045-6801-50	68pF
C 41	168-1045-56	0.1uF Z
C 42	178-1052-78	1uF
C 43	042-0671-01	10V 47uF TA
C 44	046-6812-58	680pF
C 45	168-1045-56	0.1uF Z
C 46	168-1045-56	0.1uF Z
C 47	042-0671-01	10V 47uF TA
C 48	168-5632-78	16V 0.056uF
C 49	168-1045-56	0.1uF Z
C 50	168-1045-56	0.1uF Z
C 51	168-1045-56	0.1uF Z
C 53	168-1045-56	0.1uF Z
C 54	042-0671-01	10V 47uF TA
C 56	168-4712-55	470pF K
C 57	046-1032-78	0.01uF
C 58	168-4712-55	470pF K
C 59	168-1045-56	0.1uF Z
C 60	168-1045-56	0.1uF Z
C 61	046-1032-78	0.01uF

REF No.	PART No.	DESCRIPTION
C 62	042-0671-01	10V 47uF TA
C 63	046-1032-78	0.01uF
C 64	168-1045-56	0.1uF Z
C 65	045-1201-50	12pF
C 66	046-1032-78	0.01uF
C 67	046-1032-78	0.01uF
C 68	168-1045-56	0.1uF Z
C 69	045-1201-50	12pF
C 101	046-1032-78	0.01uF
C 102	046-1032-78	0.01uF
CCT 1	050-0140-68	1/32W 3.3k ohm x4J
CCT 4	050-0140-63	1/32W 47k ohm x4J
D 1	001-0367-91	1SS226
D 2	001-2610-90	RB480KTL
IC 2	051-6399-00	TC94A15F
IC 3	051-6060-08	BD7961FM-E2
IC 4	051-7518-18	SN74LVC139APWR
IC 5	052-5062-04	MBM29DL800BA-90PFTN
IC 6	051-7518-18	SN74LVC139APWR
IC 7	051-9330-00	K4S641632F-TC60
IC 8	051-7203-48	SN74LV74APW
IC 9	051-6700-00	TMS320DA140P-GE160
IC 10	051-3315-90	TPS76316DBVR
IC 11	051-7221-58	SN74AHC1G04-HDCKR
IC 12	051-7525-08	SN74AHC1G04-HDCKR
IC 13	051-7526-08	SN74AHC1G04-HDCKR
J 1	074-1201-65	15P
J 2	074-1138-56	6P
J 3	074-1059-76	26P
J 4	074-1189-95	45P
J 5	074-1201-60	10P
L 2	010-3104-54	MPZ1608S601AT
L 3	010-3104-54	MPZ1608S601AT
Q 1	131-1188-50	2SB1188PQR
Q 2	131-1188-50	2SB1188PQR
Q 3	125-2004-92	RN1402
Q 3	125-2020-92	DTC114EKA-T146
R 1	033-1021-15	1/10W 1k ohm
R 2	033-1021-15	1/10W 1k ohm
R 3	033-3311-15	1/10W 330 ohm
R 4	033-2211-15	1/10W 220 ohm
R 5	033-2211-15	1/10W 220 ohm
R 6	033-1021-15	1/10W 1k ohm
R 7	033-1051-15	1/10W 1M ohm
R 8	033-0000-05	1/10W 0 ohm
R 10	033-5621-15	1/10W 5.6k ohm
R 11	033-4731-15	1/10W 47k ohm
R 12	119-3341-15	1/10W 330k ohm
R 13	033-2231-15	1/10W 22k ohm
R 14	033-2231-15	1/10W 22k ohm
R 15	117-1001-15	1/8W 10 ohm

REF No.	PART No.	DESCRIPTION
R 16	033-5631-15	1/10W 56k ohm
R 17	033-3331-15	1/10W 33k ohm
R 18	033-6831-15	1/10W 68k ohm
R 19	033-6831-15	1/10W 68k ohm
R 20	033-1011-15	1/10W 100 ohm
R 21	116-4711-15	1/4W 470 ohm
R 22	117-1811-15	1/8W 180 ohm
R 23	116-4711-15	1/4W 470 ohm
R 24	033-2231-15	1/10W 22k ohm
R 25	033-2231-15	1/10W 22k ohm
R 26	033-2231-15	1/10W 22k ohm
R 27	033-1011-15	1/10W 100 ohm
R 28	033-4731-15	1/10W 47k ohm
R 29	033-2231-15	1/10W 22k ohm
R 30	033-4721-15	1/10W 4.7k ohm
R 31	033-4721-15	1/10W 4.7k ohm
R 32	033-4731-15	1/10W 47k ohm
R 33	033-4731-15	1/10W 47k ohm
R 35	033-4731-15	1/10W 47k ohm
R 36	033-3311-15	1/10W 330 ohm
R 37	033-4731-15	1/10W 47k ohm
R 38	033-3311-15	1/10W 330 ohm
R 39	033-2211-15	1/10W 220 ohm
R 40	033-1011-15	1/10W 100 ohm
R 41	033-1001-15	1/10W 10 ohm
R 42	033-1001-15	1/10W 10 ohm
R 45	033-1011-15	1/10W 100 ohm
R 46	033-4731-15	1/10W 47k ohm
R 47	033-4731-15	1/10W 47k ohm
R 48	033-1011-15	1/10W 100 ohm
R 49	033-0000-05	1/10W 0 ohm
R 50	033-0000-05	1/10W 0 ohm
R 51	033-8231-15	1/10W 82k ohm
R 52	033-0000-05	1/10W 0 ohm
R 53	033-4731-15	1/10W 47k ohm
R 63	033-2231-15	1/10W 22k ohm
R 64	033-2231-15	1/10W 22k ohm
R 65	033-4731-15	1/10W 47k ohm
R 66	033-4731-15	1/10W 47k ohm
R 100	033-1011-15	1/10W 100 ohm
R 101	033-1011-15	1/10W 100 ohm
R 102	033-1011-15	1/10W 100 ohm
R 103	033-1011-15	1/10W 100 ohm
R 104	033-1011-15	1/10W 100 ohm
R 105	033-1011-15	1/10W 100 ohm
R 106	033-1011-15	1/10W 100 ohm
R 107	033-4731-15	1/10W 47k ohm
R 200	033-1051-15	1/10W 1M ohm
R 201	033-1021-15	1/10W 1k ohm
R 202	033-1021-15	1/10W 1k ohm
R 220	033-4731-15	1/10W 47k ohm
R 301	119-2231-15	1/10W 22k ohm
R 302	119-3911-15	1/10W 390 ohm
X 1	061-3534-90	16.932MHz
PWB	039-2531-20	PWB(WITHOUT COMPONENT)

Sensor PWB(B4) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
PT 3	060-0252-01	PT4850F
PT 4	060-0252-01	PT4850F
PT 5	060-0252-01	PT4850F
PT 6	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
S 1	013-7414-50	SPVG22
PWB	039-1956-00	PWB(WITHOUT COMPONET)

PIM-FPC PWB(B5) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
IC 5	051-5806-02	GPIS95

Driver PWB(B6) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
C 1	168-1045-56	0.1uF
C 2	163-1073-35	16V100uF
D 1	001-0529-29	MA8051-M
IC 1	051-6044-18	BA6920FP-Y

REF No.	PART No.	DESCRIPTION
J 1	074-1239-76	26P
J 2	074-1100-59	9P
R 1	033-1021-15	1/10W 1k ohm
R 2	032-0104-59	1/4W 2.2 ohm

REF No.	PART No.	DESCRIPTION
R 3	032-0104-59	1/4W 2.2 ohm
S 1	013-7412-50	SPVG21
PWB	039-2242-00	PWB(WITHOUT COMPONET)

PIV-FPC PWB(B7) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
IC 6	051-5806-01	GPIS93

LED-L-PWB(B8) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
LED 3	001-7042-00	GL4800
LED 4	001-7042-00	GL4800

REF No.	PART No.	DESCRIPTION
PWB	039-1954-20	PWB(WITHOUT COMPONET)

LED-R-PWB(B9) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
LED 5	001-7042-00	GL4800
LED 6	001-7042-00	GL4800

REF No.	PART No.	DESCRIPTION
PWB	039-1955-20	PWB(WITHOUT COMPONET)

L-Motor-FPC(B10) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
M 1	SMA-186-100	LOADING

M/S-FPC(B11) section: CD changer mechanism

REF No.	PART No.	DESCRIPTION
M 2	SMA-193-101	SPINDLE

REF No.	PART No.	DESCRIPTION
M 3	SMA-191-100	SLED

REF No.	PART No.	DESCRIPTION
S 2	013-7414-50	SPVG22

PRINTED WIRING BOARD

Main PWB(B1) section 1/2

To J3 of CD PWB(B2) (PAGE 29)

FLAT WIRE
816-4021-50

MAIN PWB-A(B1)

COMPONENT SIDE

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

IC | Q

IC304 Q307
IC404 Q303 Q310 Q501 Q304 Q306 Q308 Q309 Q410 Q314 Q404
IC201 Q301
IC301 Q311
IC407 Q405 Q302 Q411
IC403 Q406 Q313
IC202 Q407
IC303
IC406
IC203 Q312 Q202 Q203
IC401 Q608 Q607
IC302 Q613 Q606
IC405 Q603 Q402
IC402 Q610 Q105 Q409 Q408
IC103 Q601 Q305 Q602 Q605
IC104 Q109 Q110
IC101 Q102 Q604
IC102 Q401 Q108 Q101 Q103 Q106 Q104 Q107

J301 NS10+6

NO	DESCRIPTION
A	FRONT SP L-CH (+)
B	FRONT SP R-CH (+)
C	ILL (+)
D	ACC
E	FRONT SP L-CH (-)
F	FRONT SP R-CH (-)
G	ANT SIGNAL
H	B/U
I	N.C
J	GND
K	AMP ON
L	REAR SP R-CH (+)
M	GND
N	REAR SP L-CH (-)
O	REAR SP L-CH (+)
P	REAR SP R-CH (-)

J401 FOR-DVD TK08

NO	DESCRIPTION
1	L-CH INPUT (+)
2	AUDIO-ON
3	L-CH INPUT (-)
4	DVD-ON
5	N.C
6	R-CH INPUT (-)
7	R-CH INPUT (+)
8	GND

ANT
(REAR PLATE
with ANT.recept)

800-0206-00
VINYL COAT WIRE

FM DIVER
VR101

FM NOISE
VR102

MAIN PWB-B(B1)

FLAT WIRE
816-2638-01

To ES

J602 A-12MW

NO	CONNECTION
1	CD-LCH (+)
2	CD-RCH (+)
3	COMBI-CD (TXD)
4	N.C
5	CD-LCH (-)
6	CD-RCH (-)
7	EARTH
8	SHEILD-EARTH
9	N.C
10	SLAVE-REQ
11	CD-COMBI (RXD)
12	N.C

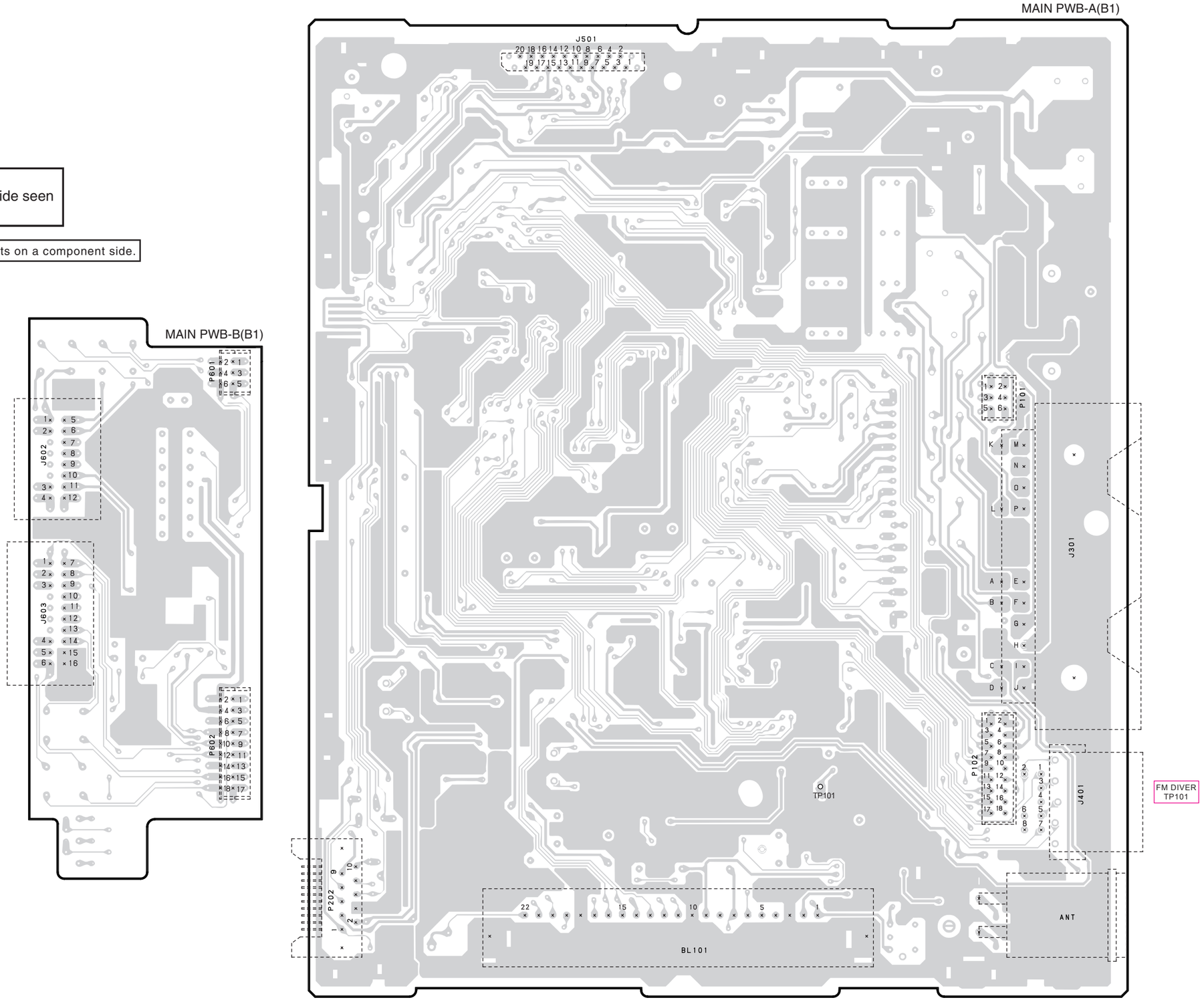
J603 A-16MW

NO	CONNECTION
1	SPEED SIGNAL
2	N.C
3	N.C
4	TEL ON
5	NAVI IN-
6	NAVI IN+
7	AUD-DCU
8	DCU-AUD
9	D-GND
10	N.C
11	N.C
12	N.C
13	TEL IN-
14	TEL IN+
15	TEL GND
16	NAVI GND

SOLDER SIDE

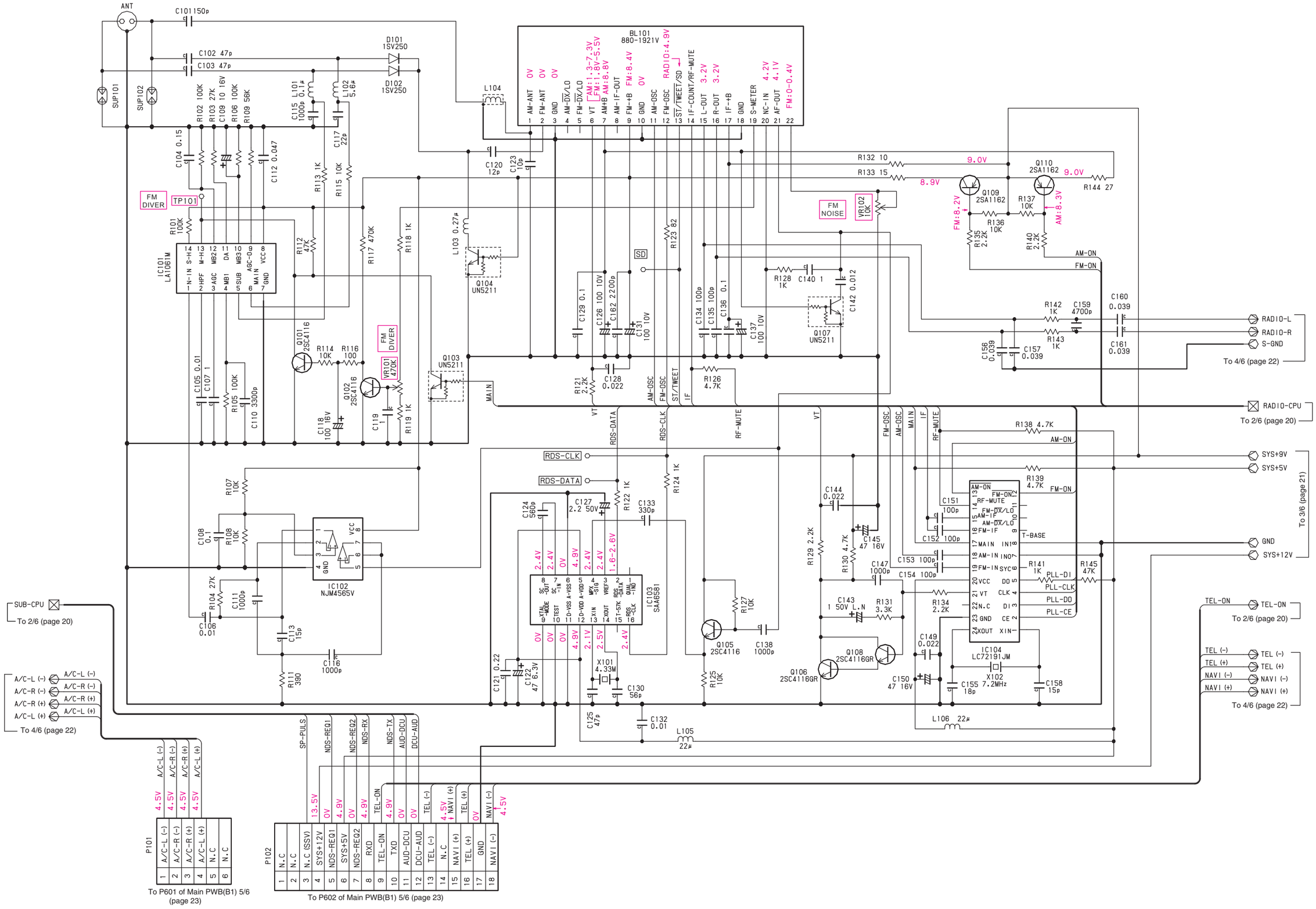
Caution:
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

The parts of a dotted line express the parts on a component side.

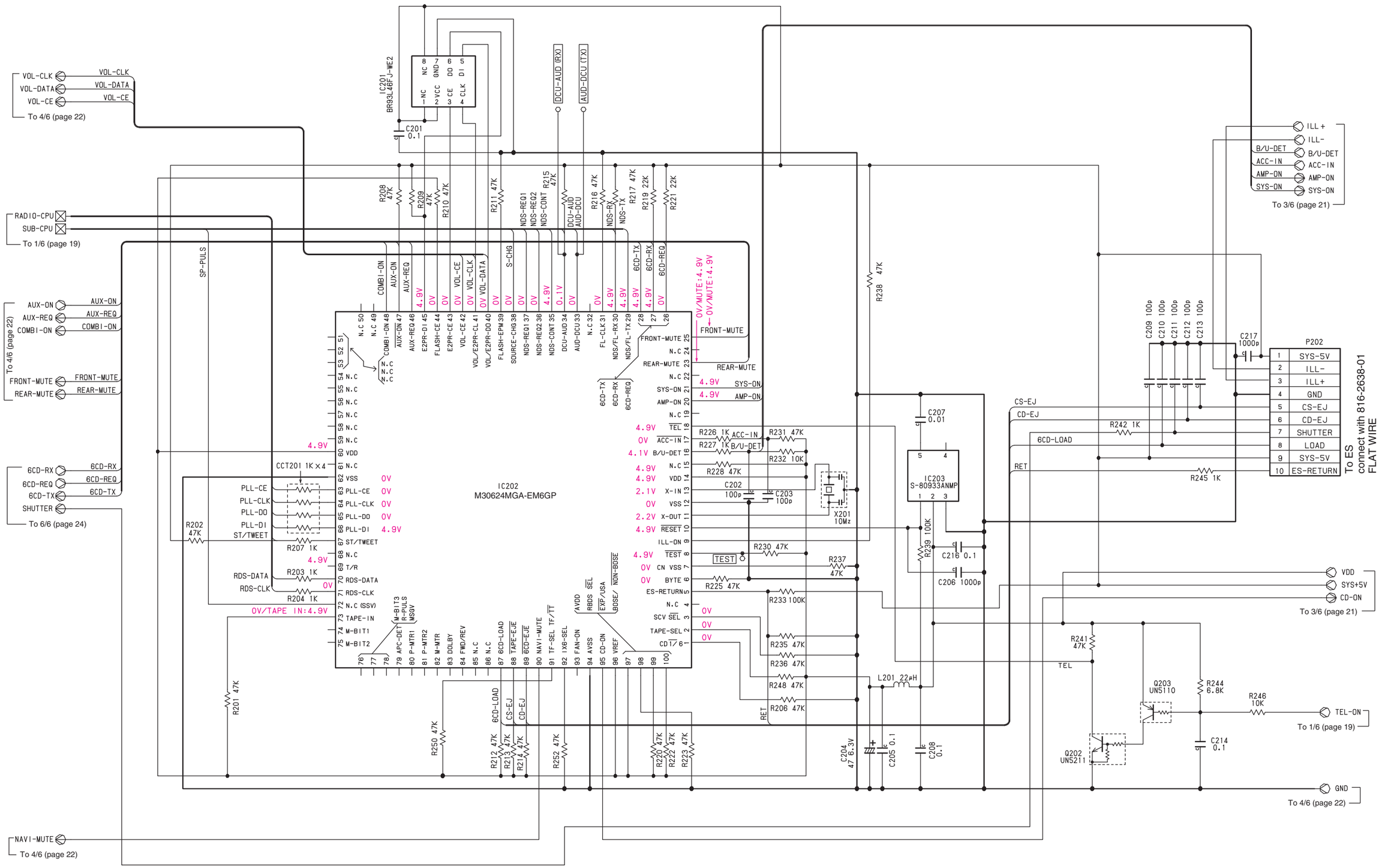


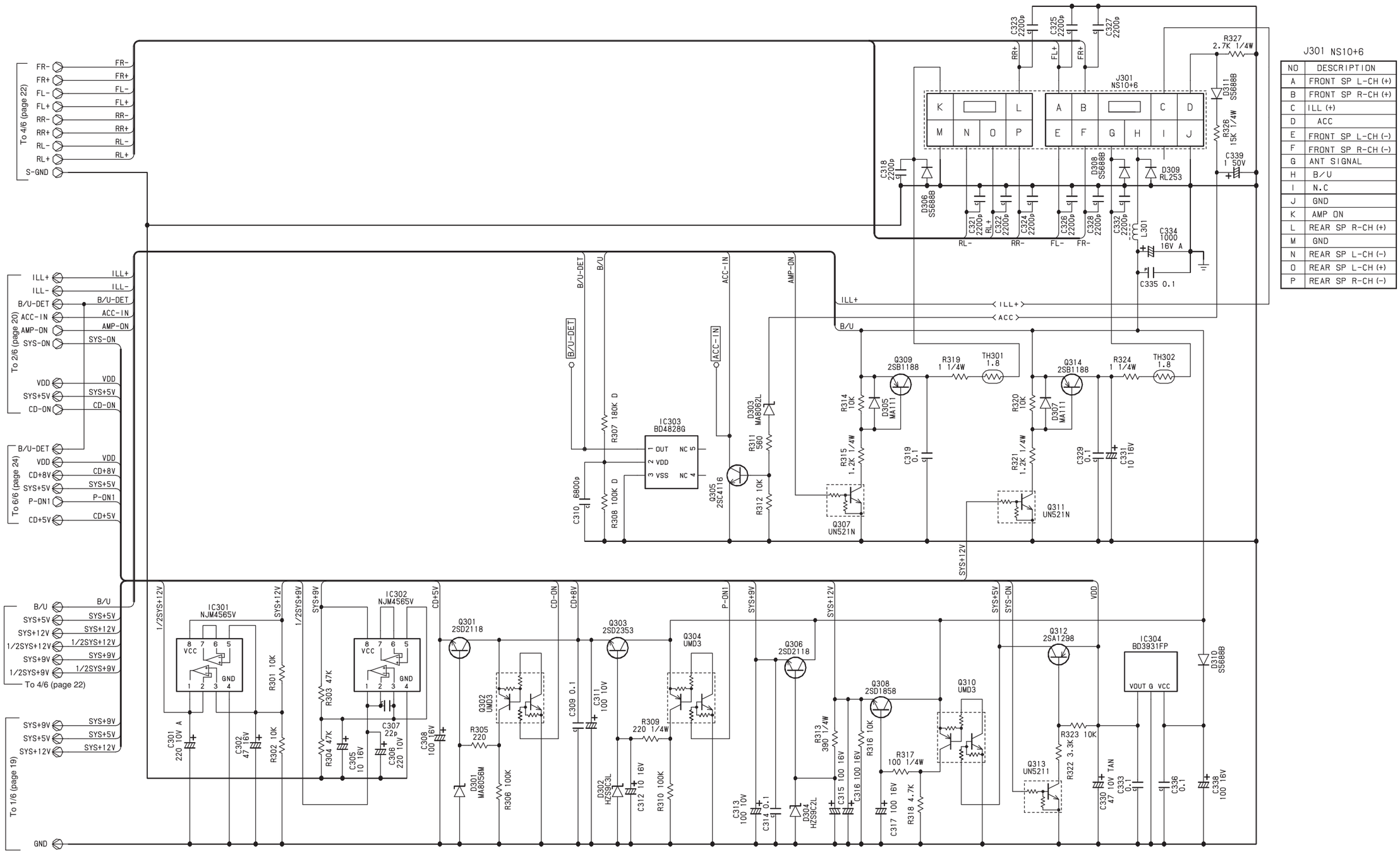
CIRCUIT DIAGRAM

Main PWB(B1) section 1/6

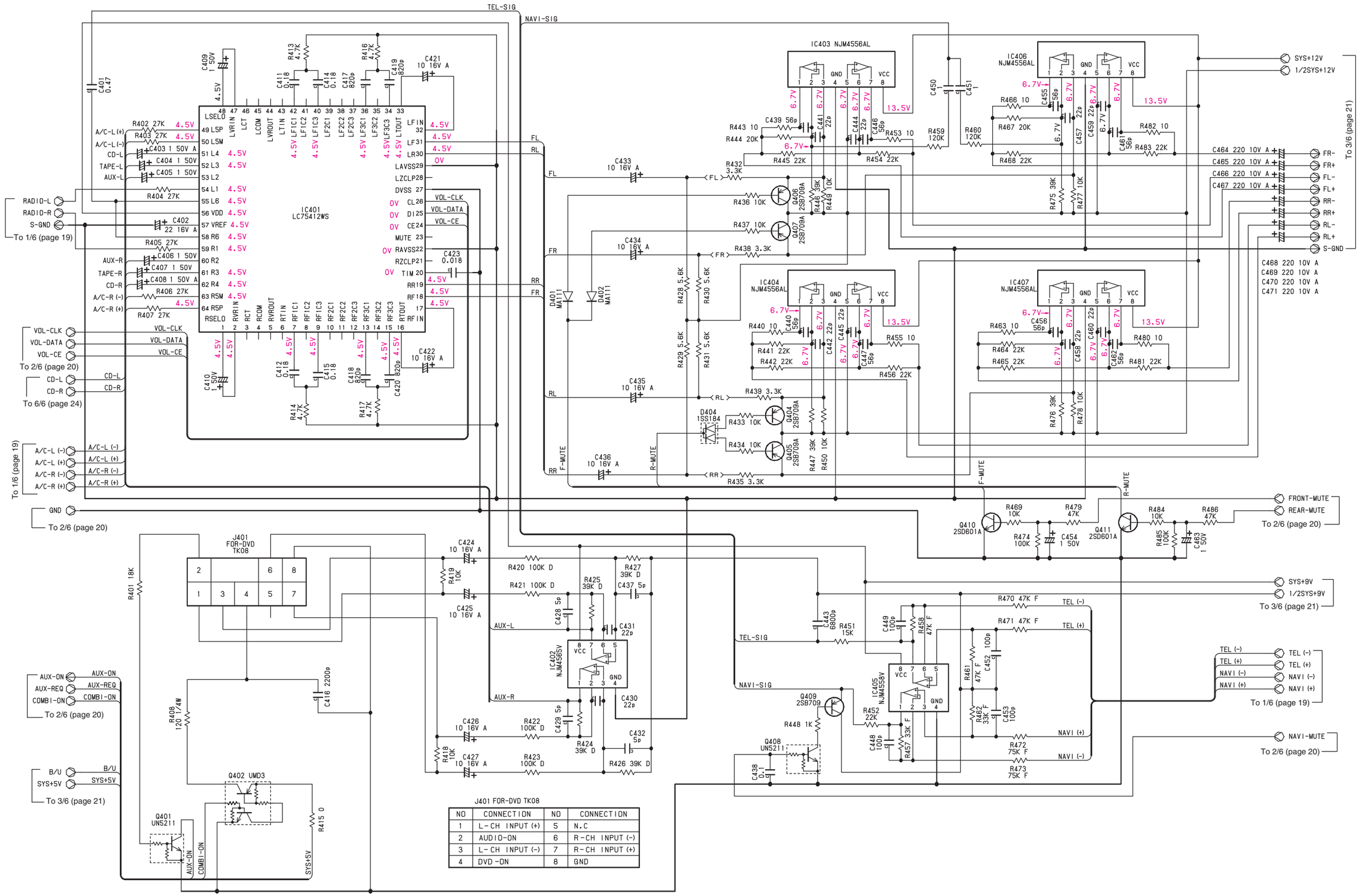


PN-2708N-A/B

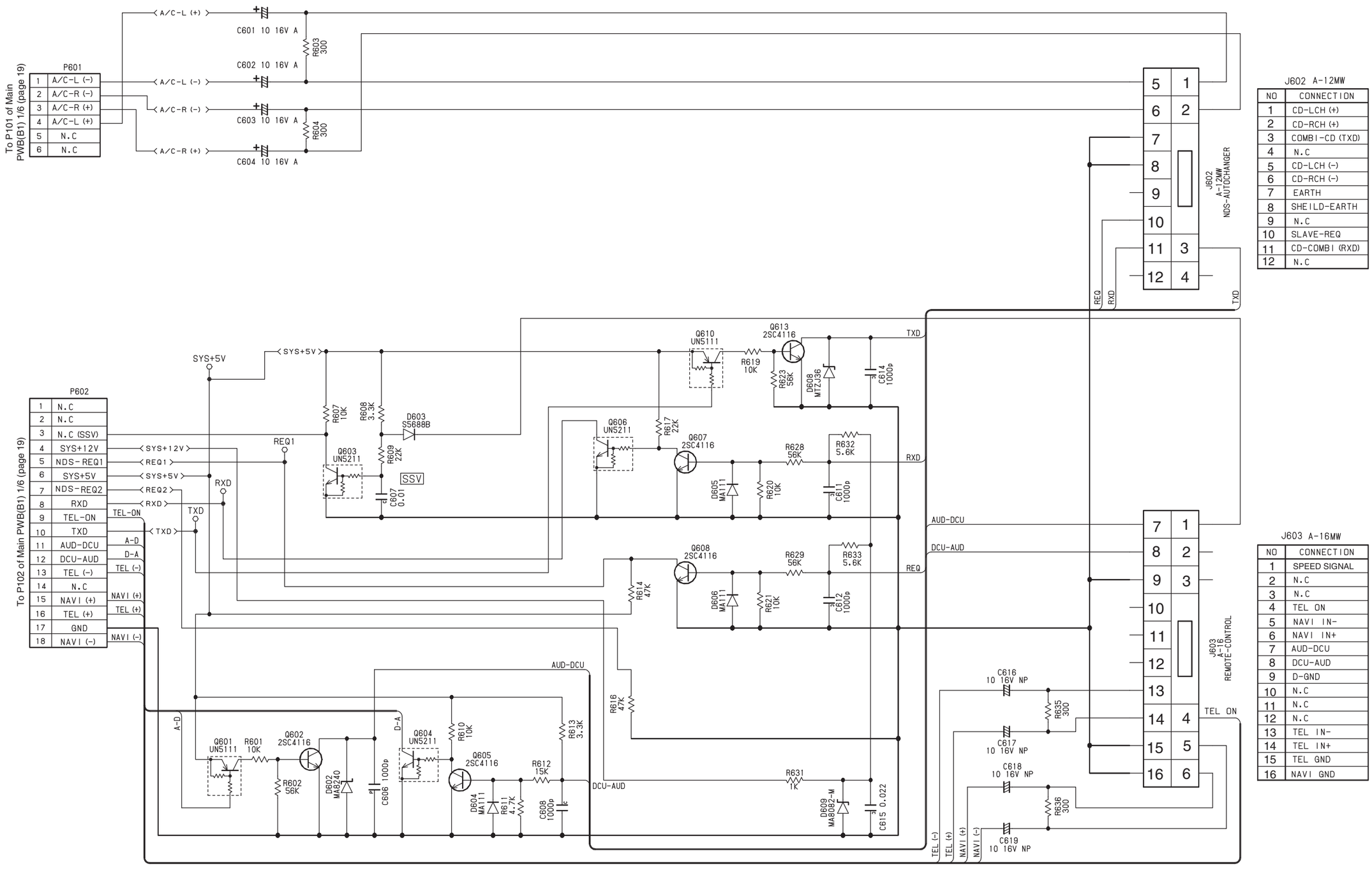

VOL-CLK
VOL-DATA
VOL-CE
To 4/6 (page 22)
IC201
BR93L46FJ-WE2
C201
0.1
DCU-AUD (RX)
AUD-DCU (TX)
R208 47K
R209 47K
R210 47K
R211 47K
R215 47K
R216 47K
R217 47K
R219 22K
R221 22K
NDS-REQ1
NDS-REQ2
NDS-CONT
DCU-AUD
AUD-DCU
NDS-RX
NDS-TX
ILL+
ILL-
B/U-DET
ACC-IN
AMP-ON
SYS-ON
To 3/6 (page 21)
RADIO-CPU
SUB-CPU
To 1/6 (page 19)
SP-PULS
AUX-ON
AUX-REQ
COMBI-ON
To 4/6 (page 22)
FRONT-MUTE
REAR-MUTE
6CD-RX
6CD-REQ
6CD-TX
SHUTTER
To 6/6 (page 24)
NAVI-MUTE
To 4/6 (page 22)
IC202
M30624MGA-EM6GP
CCT201 1K×4
R202 47K
R207 1K
R203 1K
R204 1K
R201 47K
PLL-CE
PLL-CLK
PLL-DO
PLL-DI
ST/TWEET
RDS-DATA
RDS-CLK
TAPE-IN
0V/TAPE IN:4.9V
M-BIT1
M-BIT2
M-BIT3
R-PULS
MSGV
APC-DET
P-MTR1
P-MTR2
M-MTR
DOLBY
FWD/REV
6CD-LOAD
TAPE-EJE
6CD-EJE
NAVI-MUTE
TF-SEL
IXB-SEL
FAN-ON
AVSS
CD-ON
VREF
AVDD
RBDS
EXP/USA
BOSE/NON-BOSE
SCV
TAPE-SEL
CD
FRONT-MUTE
REAR-MUTE
SYS-ON
AMP-ON
TEL
ACC-IN
B/U-DET
X-IN
X-OUT
RESET
ILL-ON
TEST
CN VSS
BYTE
ES-RETURN
R250 47K
R212 47K
R213 47K
R214 47K
R252 47K
R220 47K
R222 47K
R223 47K
R226 1K
R227 1K
R228 47K
R230 47K
R231 47K
R232 10K
R233 100K
R225 47K
R235 47K
R236 47K
R248 47K
R206 47K
R238 47K
R237 47K
C202 100p
C203 100p
X201 10Mz
IC203 S-80933ANMP
C207 0.01
C204 47 6.3V
C205 0.1
C208 0.1
L201 22μH
C209 100p
C210 100p
C211 100p
C212 100p
C213 100p
C217 1000p
P202
SYS-5V
ILL-
ILL+
GND
CS-EJ
CD-EJ
SHUTTER
LOAD
SYS-5V
ES-RETURN
To ES connect with 816-2638-01 FLAT WIRE
R242 1K
R245 1K
R239 100K
C216 0.1
C206 1000p
R241 47K
TEL
Q203 UN5110
Q202 UN5211
R244 6.8K
R246 10K
C214 0.1
TEL-ON
To 1/6 (page 19)
VDD
SYS+5V
CD-ON
To 3/6 (page 21)
GND
To 4/6 (page 22)
0V/MUTE:4.9V
4.9V
0V
0.1V
2.1V
4.1V
2.2V



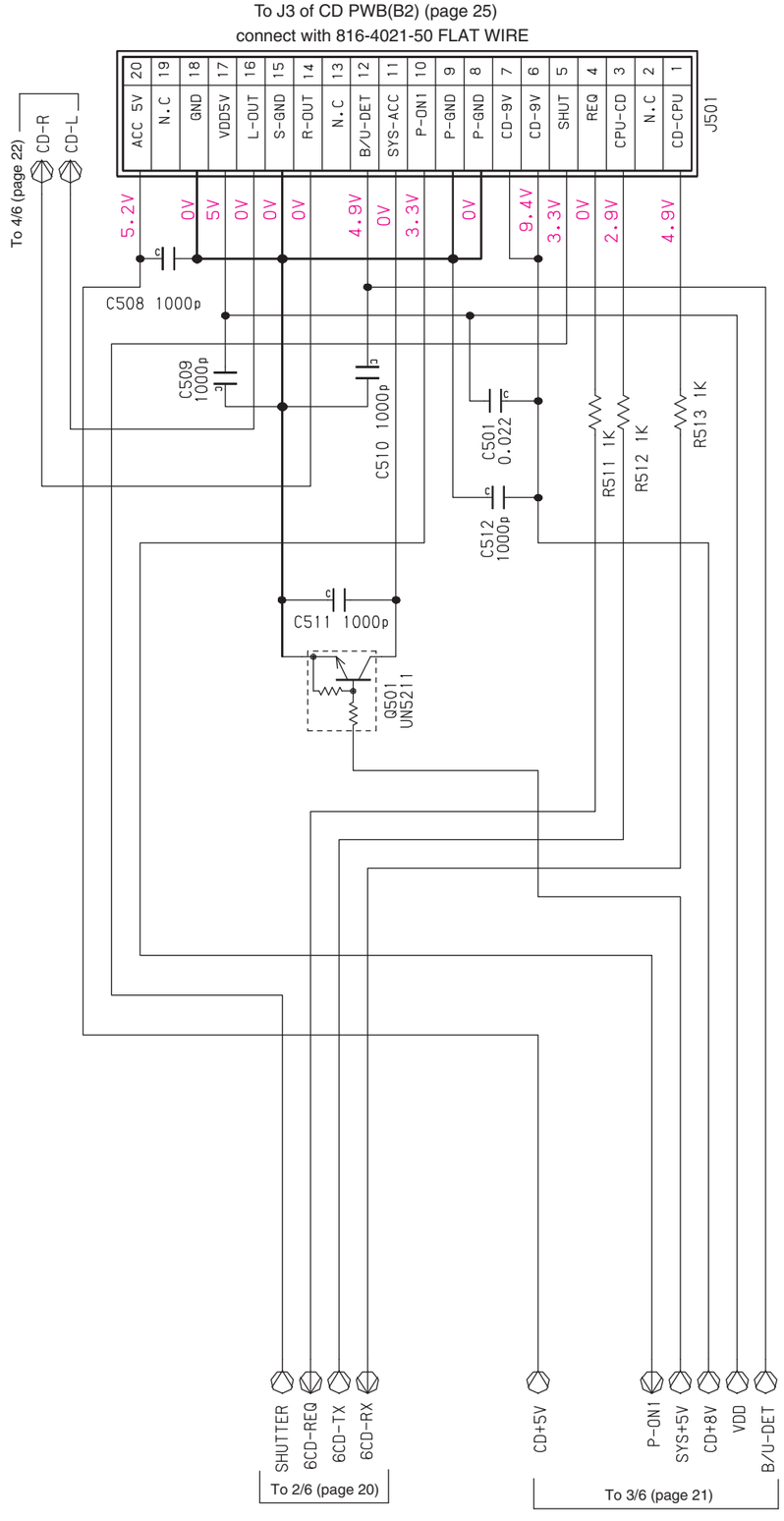
NO	DESCRIPTION
A	FRONT SP L-CH (+)
B	FRONT SP R-CH (+)
C	ILL (+)
D	ACC
E	FRONT SP L-CH (-)
F	FRONT SP R-CH (-)
G	ANT SIGNAL
H	B/U
I	N.C
J	GND
K	AMP ON
L	REAR SP R-CH (+)
M	GND
N	REAR SP L-CH (-)
O	REAR SP L-CH (+)
P	REAR SP R-CH (-)



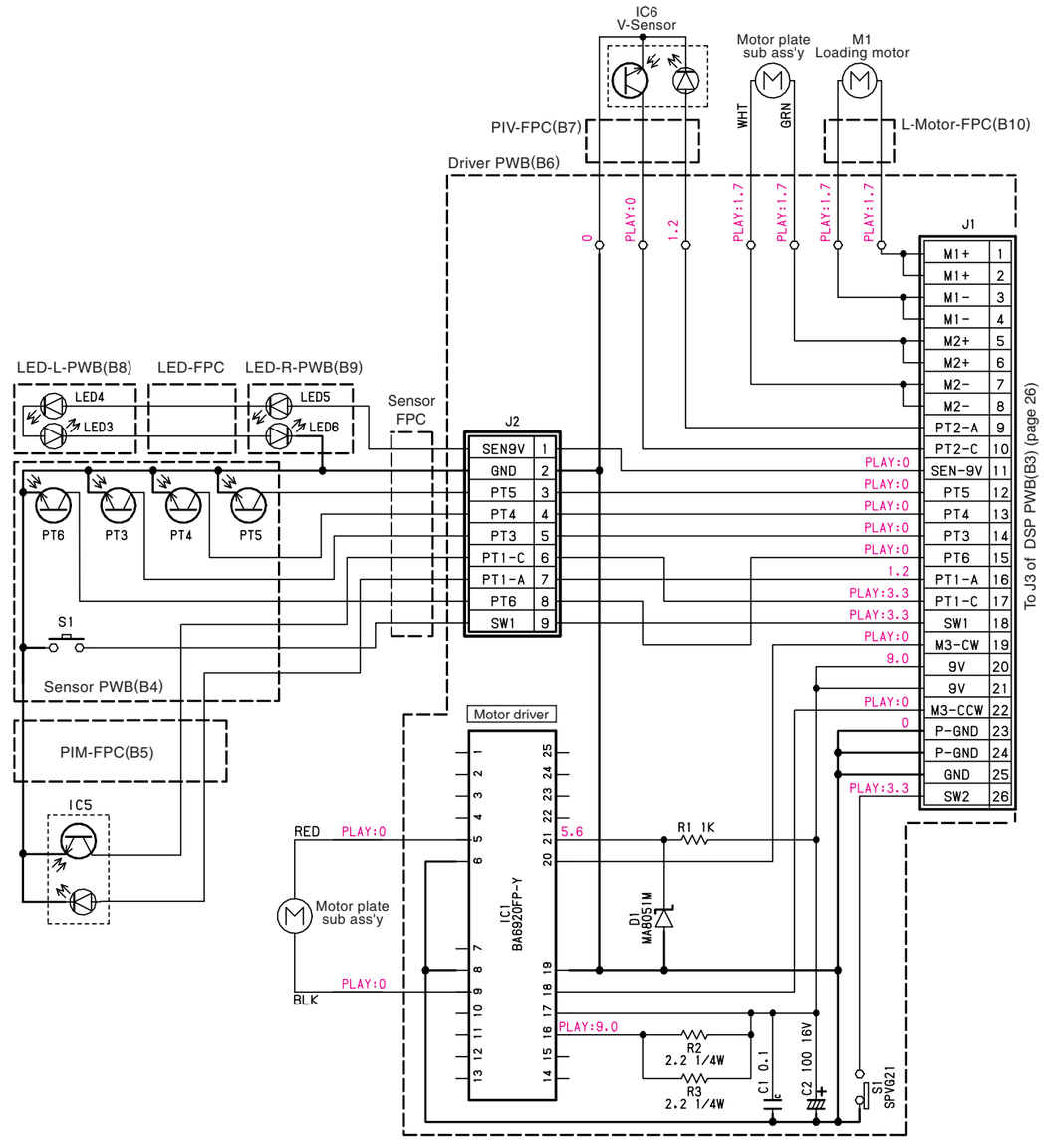
J401 FOR-DVD TK08			
NO	CONNECTION	NO	CONNECTION
1	L-CH INPUT (+)	5	N.C
2	AUDIO-ON	6	R-CH INPUT (-)
3	L-CH INPUT (-)	7	R-CH INPUT (+)
4	DVD-ON	8	GND

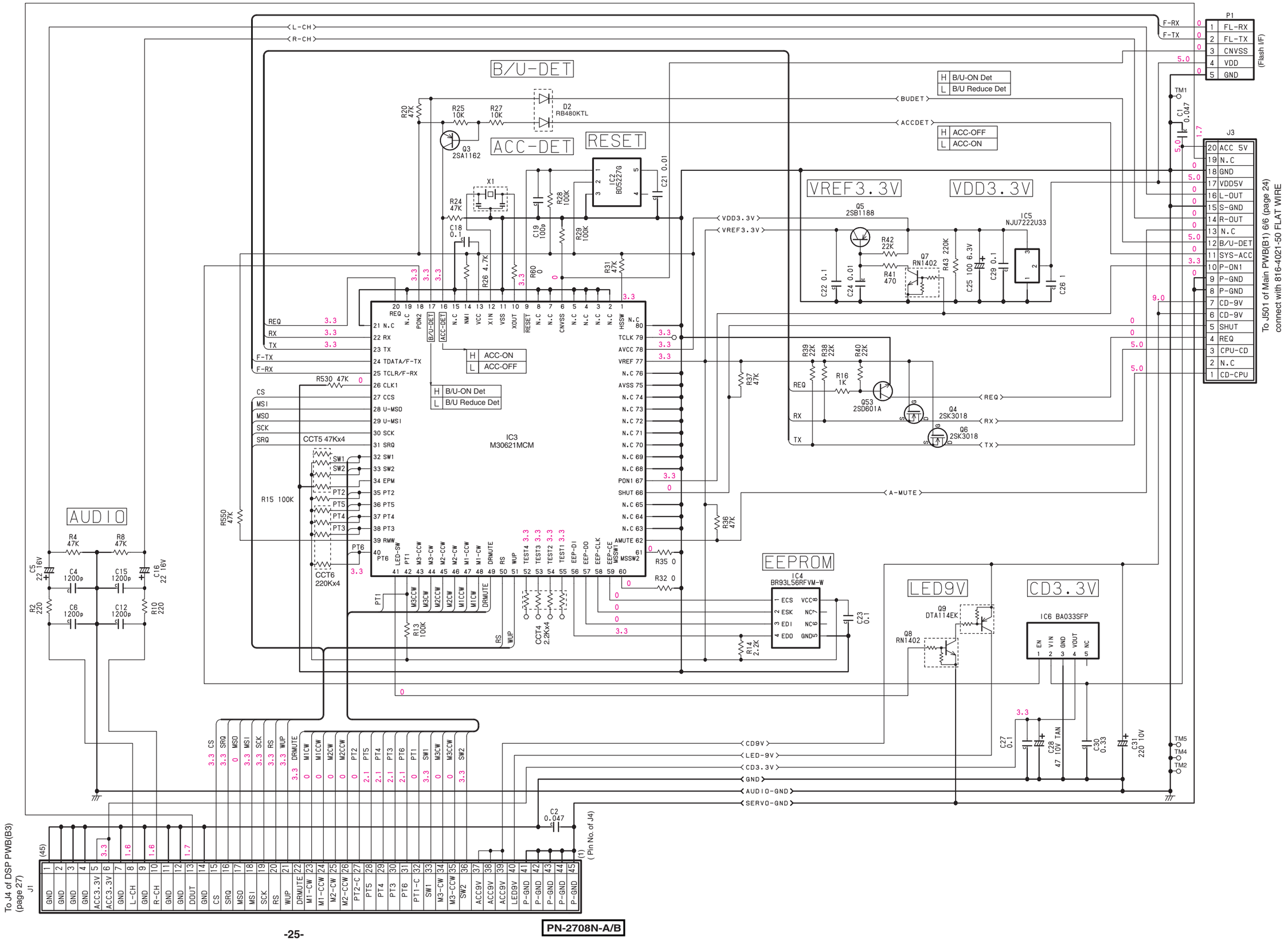

To P101 of Main PWB(B1) 1/6 (page 19)
P601
1 A/C-L (-)
2 A/C-R (-)
3 A/C-R (+)
4 A/C-L (+)
5 N.C
6 N.C
A/C-L (+)
A/C-L (-)
A/C-R (-)
A/C-R (+)
C601 10 16V A
C602 10 16V A
C603 10 16V A
C604 10 16V A
R603 300
R604 300
J602 A-12MW
NDS-AUTOCHANGER
NO CONNECTION
1 CD-LCH (+)
2 CD-RCH (+)
3 COMBI-CD (TXD)
4 N.C
5 CD-LCH (-)
6 CD-RCH (-)
7 EARTH
8 SHEILD-EARTH
9 N.C
10 SLAVE-REQ
11 CD-COMBI (RXD)
12 N.C
REQ
RXD
TXD
To P102 of Main PWB(B1) 1/6 (page 19)
P602
1 N.C
2 N.C
3 N.C (SSV)
4 SYS+12V
5 NDS-REQ1
6 SYS+5V
7 NDS-REQ2
8 RXD
9 TEL-ON
10 TXD
11 AUD-DCU
12 DCU-AUD
13 TEL (-)
14 N.C
15 NAVI (+)
16 TEL (+)
17 GND
18 NAVI (-)
SYS+12V
REQ1
SYS+5V
REQ2
RXD
TEL-ON
TXD
A-D
D-A
TEL (-)
NAVI (+)
TEL (+)
NAVI (-)
SYS+5V
REQ1
RXD
TXD
R607 10K
R608 3.3K
D603 S5688B
R609 22K
SSV
C607 0.01
Q603 UN5211
Q606 UN5211
R617 22K
Q607 2SC4116
R628 56K
R632 5.6K
D605 MA111
R620 10K
C611 1000p
Q610 UN5111
R619 10K
Q613 2SC4116
R623 56K
D608 MTZJ36
C614 1000p
Q608 2SC4116
R629 56K
R633 5.6K
D606 MA111
R621 10K
C612 1000p
R614 47K
AUD-DCU
DCU-AUD
REQ
RXD
TXD
J603 A-16MW
REMOTE-CONTROL
NO CONNECTION
1 SPEED SIGNAL
2 N.C
3 N.C
4 TEL ON
5 NAVI IN-
6 NAVI IN+
7 AUD-DCU
8 DCU-AUD
9 D-GND
10 N.C
11 N.C
12 N.C
13 TEL IN-
14 TEL IN+
15 TEL GND
16 NAVI GND
C616 10 16V NP
C617 10 16V NP
C618 10 16V NP
C619 10 16V NP
R635 300
R636 300
TEL ON
TEL (-)
TEL (+)
NAVI (+)
NAVI (-)
Q601 UN5111
R601 10K
Q602 2SC4116
R602 56K
D602 MA8240
C606 1000p
Q604 UN5211
R610 10K
Q605 2SC4116
R612 15K
R613 3.3K
D604 MA111
R611 4.7K
C608 1000p
R616 47K
R631 1K
D609 MA8082-M
C615 0.022

Main PWB(B1) section 6/6



Sensor PWB(B4) / PIM-FPC PWB(B5) / Driver PWB(B6) / PIV-FPC PWB(B7) / LED-L-PWB(B8) / LED-R-PWB(B9) / L-Motor-FPC(B10) section: CD changer mechanism




B/U-DET
ACC-DET
RESET
D2 RB480KTL
Q3 2SA1162
IC2 BD5227G
X1
IC3 M30621MCM
H B/U-ON Det
L B/U Reduce Det
H ACC-ON
L ACC-OFF
BUDET
ACCDET
VREF3.3
VDD3.3
Q5 2SB1188
IC5 NJU7222U33
Q7 RN1402
CCT5 47Kx4
CCT6 220Kx4
R530 47K
R550 47K
R15 100K
AUDIO
EEPROM
IC4 BR93L56RFVM-W
LED9V
CD3.3V
IC6 BA033SFP
Q9 DTA114EK
Q8 RN1402
Q53 2SD601A
Q4 2SK3018
Q6 2SK3018
A-MUTE
P1
(Flash I/F)
J3
To J501 of Main PWB(B1) 6/6 (page 24)
connect with 816-4021-50 FLAT WIRE
To J4 of DSP PWB(B3)
(page 27)
J1
(Pin No. of J4)
CD9V
LED-9V
CD3.3V
GND
AUDIO-GND
SERVO-GND

PN-2708N-A/B

DSP PWB(B3)

To 2/2 (page 27)

SW2 3.3 SW2
M3CCW 0 M3CCW
M3CW 0 M3CW
SW1 3.3 SW1
PT1 0 PT1
PT6 2.1 PT6
PT3 2.1 PT3
PT4 2.1 PT4
PT5 2.1 PT5
LED-9V LED9V
PT2 0 PT2
M2CCW 0 M2CCW
M2CW 0 M2CW
M1CCW 0 M1CCW
M1CW 0 M1CW
DRMUTE 3.3 DRMUTE

RXCLK 1.7
R-OUT 1.6
A-GND 0
L-OUT 1.6

To 2/2 (page 27)

BUS0 3.3 BUS0
BUS1 3.3 BUS1
BUS2 3.3 BUS2
BUS3 3.3 BUS3
BUCK 3.3 BUCK
/CCE 3.3 /CCE
/RST 3.3 /RST
DACBCLK 1.6 DACBCLK
DACDATA 1.7 DACDATA
DACLRCK 1.8 DACLRCK
TIBCLK 1.7 TIBCLK
TIDATA 1.7 TIDATA
TILRCK 1.6 TILRCK
IPF 0 IPF
MBOV 0 MBOV
SBSY 0 SBSY

SPDIF 1.7
P-9V 9.0
P-GND 0
LIMIT 0
RX-3.3V 3.3
CD-GND 0

C13 47 25V TAN
C17 1
C16 0.047
C15 0.047
C21 470p
C20 470p
C19 0.1
C22 0.1
R200 1M
C12 0.1
C25 6800p
C28 1000p
C29 0.033
C7 0.1
R5 220
C6 47 10V TAN
R4 220
C8 0.1
CCT1 3.3Kx4
R2 1K
R1 1K
C3 4700p
R220 47K
R201 1K
C5 0.1
R202 1K
R39 220
C65 12p
R35 47K
C10 0.1
R65 47K
R66 47K
R10 5.6K
R12 330K
R13 22K
R11 47K
C18 47p
C23 0.015
C24 0.1
C26 0.01
R8 0
C32 4700p
C41 0.1
C40 68p
C39 1
C36 0.1
C45 0.1
C35 0.015
R14 22K
C34 0.1
C33 1500p
C38 47 10V TAN
C44 680p
C43 47 10V TAN
C42 1
C37 0.1
C47 47 10V TAN
C46 0.1
R15 10
Q1 2SB1188
D1 1SS226TE85L
R63 22K
R64 22K
R17 33K
R16 56K
R19 68K
R18 68K
R49 0
R50 0
R51 82K
R52 0
R20 100
R23 470 PT61/4W
R22 180
R21 470 1/4W

IC2 TC94A15F
NPN:H, PNP:L

IC3 BD7961FM

To J1 of Driver PWB(B6) (page 24)

J3
SW2 26
GND 25
P-GND 24
P-GND 23
M3-CCW 22
9V 21
9V 20
M3-CW 19
SW1 18
PT1 17
PT1-A 16
PT6 15
PT3 14
PT4 13
PT5 12
LED9V 11
PT2 10
PT2-A 9
M2- 8
M2- 7
M2+ 6
M2+ 5
M1- 4
M1- 3
M1+ 2
M1+ 1

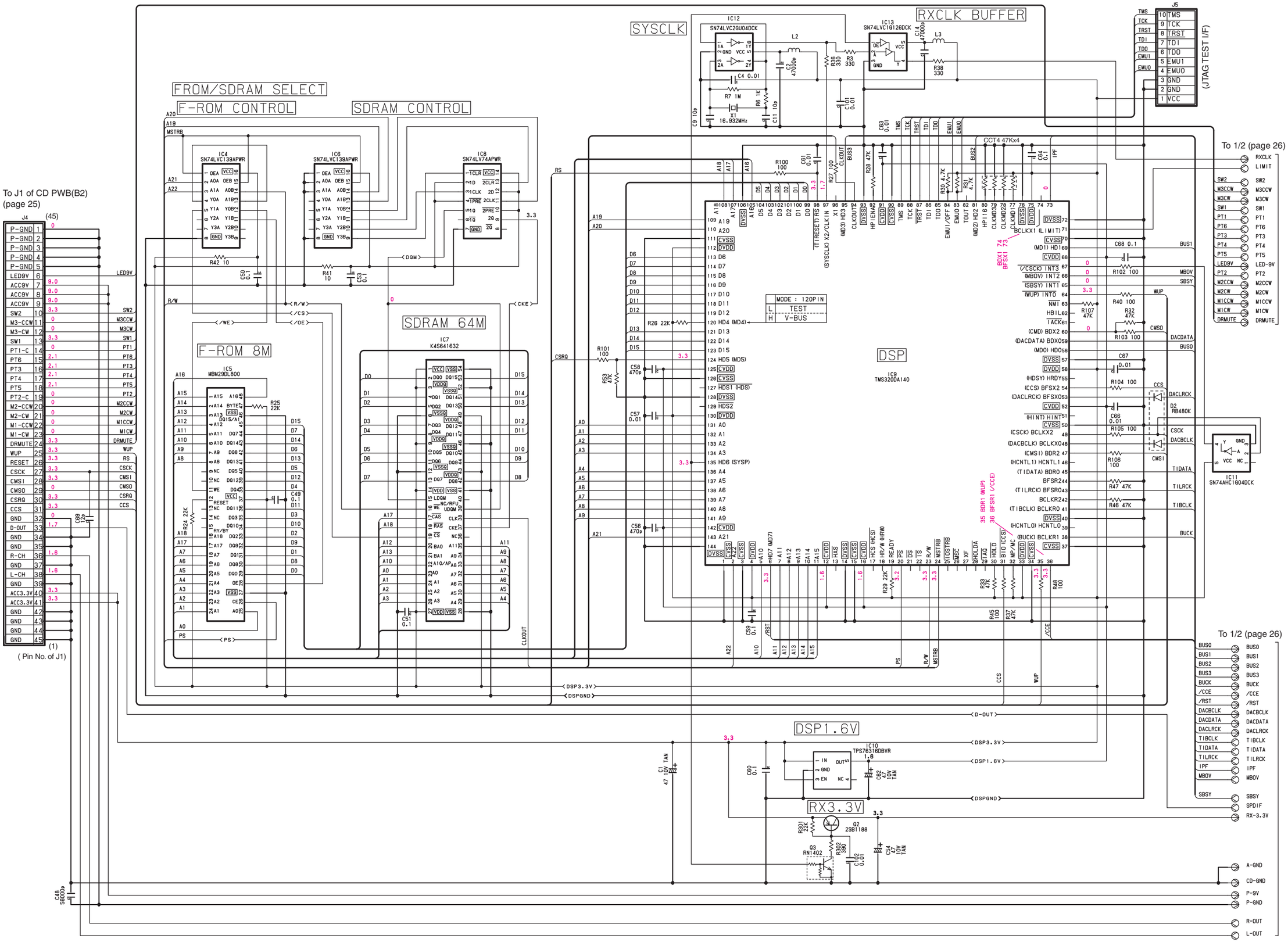
J2
LIMIT 1
GND 2
SP- 3
SP+ 4
SL- 5
SL+ 6

M/S-FPC (B11)

DETECT-SW
S2
BLK M2
RED
SP-MOTOR
M3
SL-MOTOR

J1
1 A
2 LD
3 B
4 GND
5 C
6 VC
7 F
8 FCS+
9 E
10 TRK-
11 VCC
12 TRK+
13 PD
14 FCS-
15 VR

Pick up ass'y
Drive unit

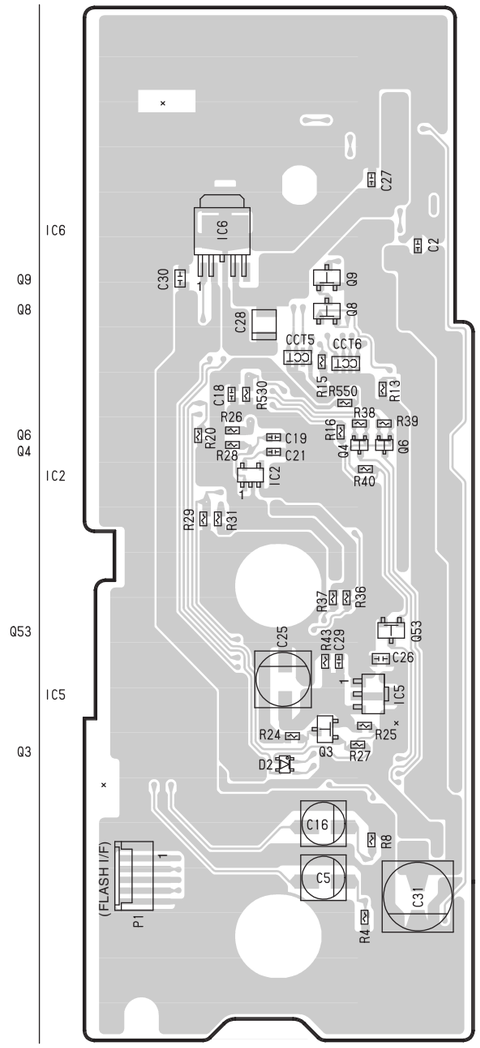

To J1 of CD PWB(B2)
(page 25)
J4
(45)
(1)
(Pin No. of J1)
P-GND
LED9V
ACC9V
SW2
M3-CCW
M3-CW
SW1
PT1-C
PT6
PT3
PT4
PT5
PT2-C
M2-CCW
M2-CW
M1-CCW
M1-CW
DRMUTE
WUP
RESET
CSCK
CMSI
CMSO
CSRQ
CCS
GND
D-OUT
R-CH
L-CH
ACC3.3V
FROM/SDRAM SELECT
F-ROM CONTROL
SDRAM CONTROL
IC4
SN74LVC139APWR
IC6
SN74LVC139APWR
IC8
SN74LV74APWR
SDRAM 64M
IC7
K4S641632
F-ROM 8M
IC5
MBM29DL800
SYSCLK
IC12
SN74LVC2GU04DCK
IC13
SN74LVC1G126DCK
RXCLK BUFFER
X1
16.932MHz
DSP
IC9
TMS320DA140
MODE : 12OPIN
L TEST
H V-BUS
J5
(JTAG TEST I/F)
TMS
TCK
TRST
TDI
TDO
EMU1
EMU0
To 1/2 (page 26)
RXCLK
LIMIT
SW2
M3CCW
M3CW
SW1
PT1
PT6
PT3
PT4
PT5
LED-9V
PT2
M2CCW
M2CW
M1CCW
M1CW
DRMUTE
BUS1
WBOV
SBSY
WUP
CMSO
DACDATA
BUSO
CCS
DACLRCK
D2
RB480K
CSCK
DACBCLK
CMSI
TIDATA
TILRCK
TIBCLK
BUCK
IC11
SN74AHC1G04DCK
BUS0
BUS2
BUS3
/CCE
/RST
MBOV
SPDIF
RX-3.3V
DSP1.6V
IC10
TPS76316DBVR
RX3.3V
Q2
2SB1188
Q3
RN1402
A-GND
CD-GND
P-9V
P-GND
R-OUT
L-OUT
D-OUT
DSP3.3V
DSP1.6V
DSPGND

PRINTED WIRING BOARD

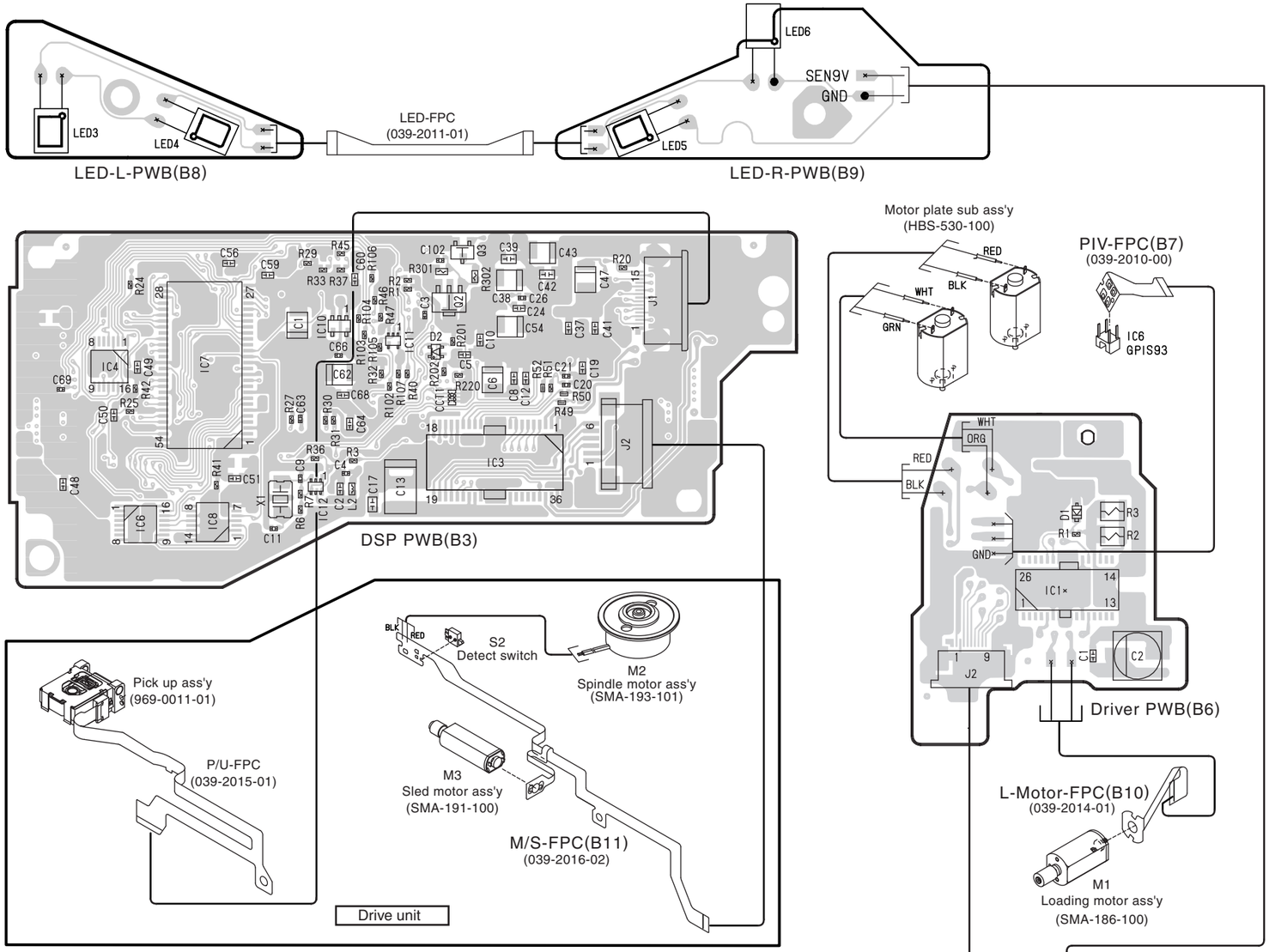
CD PWB(B2) / DSP PWB(B3) / Sensor PWB(B4) / PIM-FPC PWB(B5) / Driver PWB(B6) / PIV-FPC PWB(B7) / LED-L-PWB(B8) / LED-R-PWB(B9) / L-Motor-FPC(B10) / M/S-FPC(B11) section 1/2: CD changer mechanism

COMPONENT SIDE

Caution:
COMPONENT SIDE:
Parts on the component side seen from the component side are indicated.

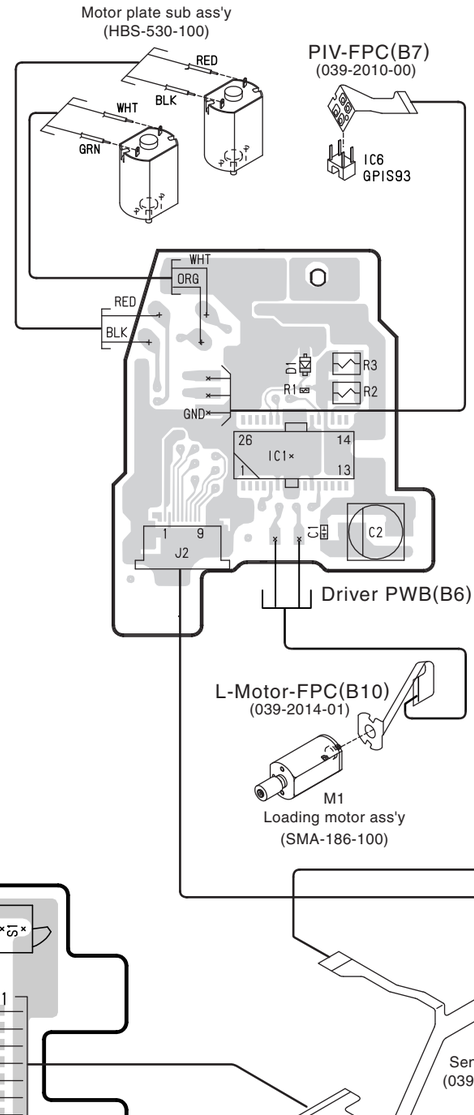


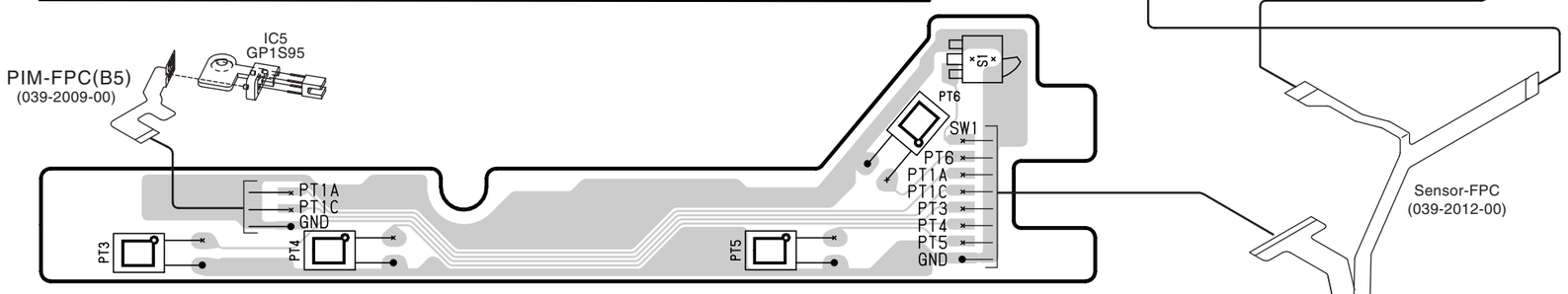
CD PWB(B2)



DSP PWB(B3)

LED-L-PWB(B8) LED-R-PWB(B9)





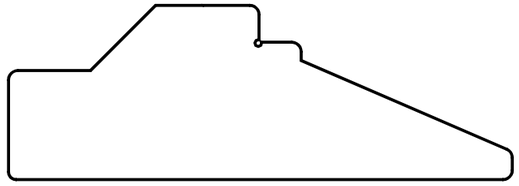
Sensor PWB(B4)

PN-2708N-A/B

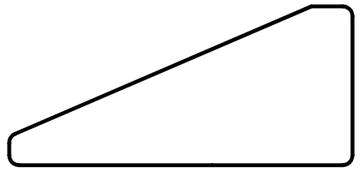
CD PWB(B2) / DSP PWB(B3) / Sensor PWB(B4) / Driver PWB(B6) /
LED-L-PWB(B8) / LED-R-PWB(B9) section 2/2: CD changer mechanism

SOLDER SIDE

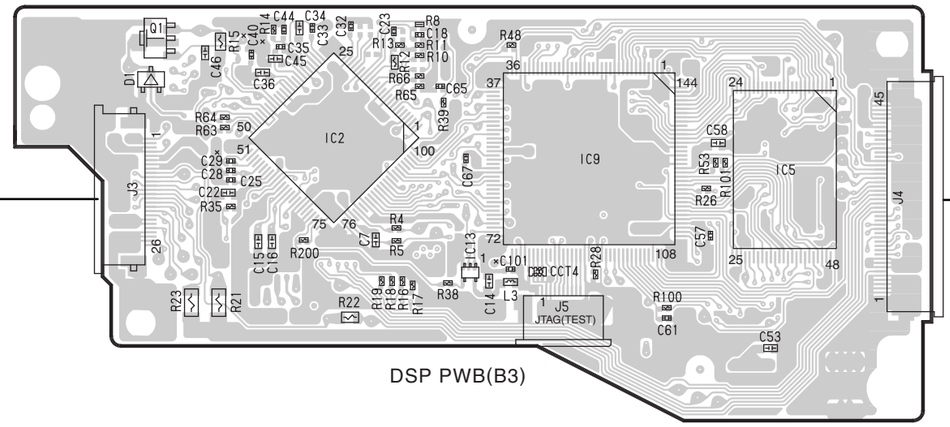
Caution:
SOLDER SIDE:
Parts on the solder side seen from the solder side are indicated.



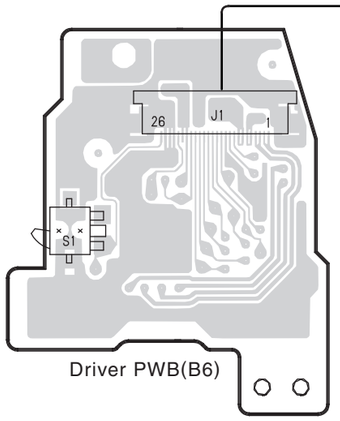
LED-R-PWB(B9)



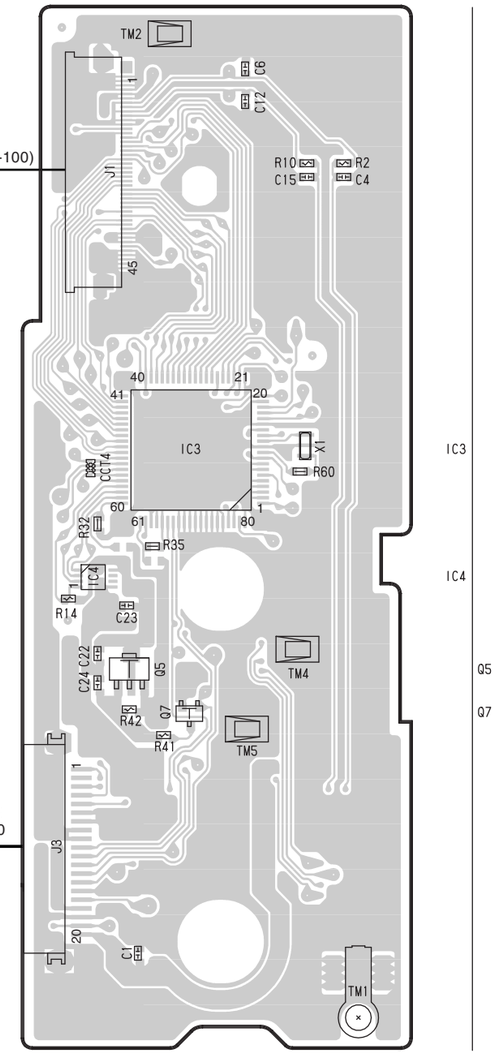
LED-L-PWB(B8)



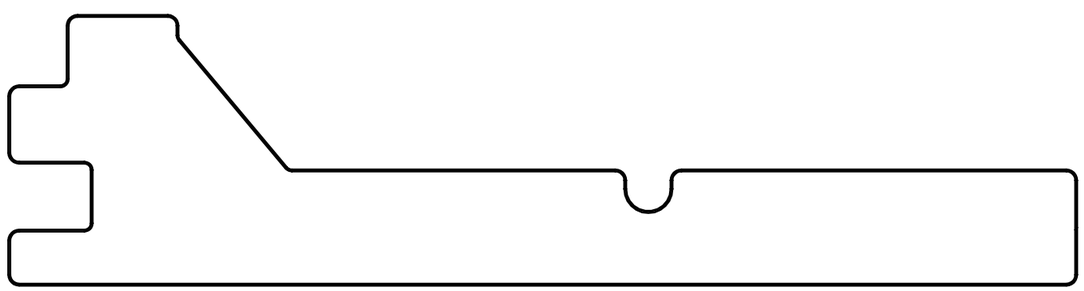
DSP PWB(B3)



Driver PWB(B6)



CD PWB(B2)



Sensor PWB(B4)